

Fig.1A

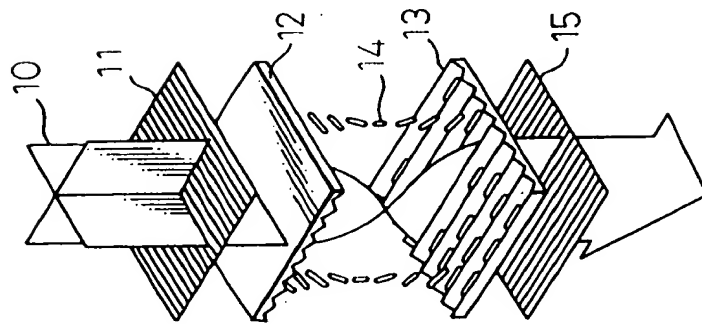


Fig.1B

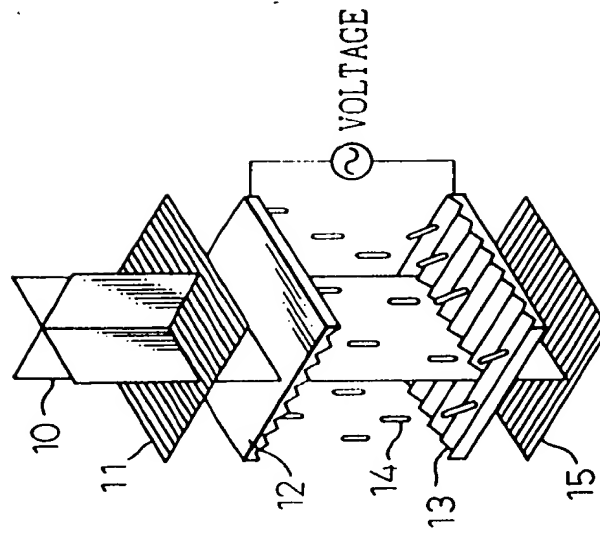


Fig.2A

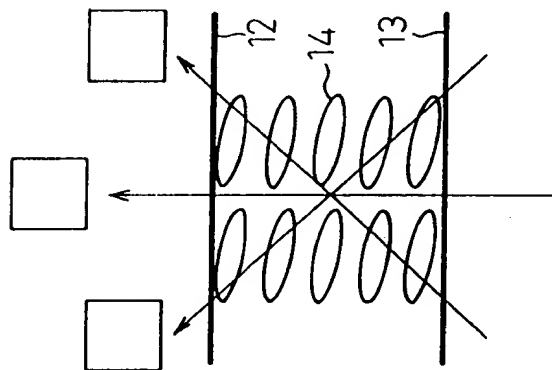


Fig.2B

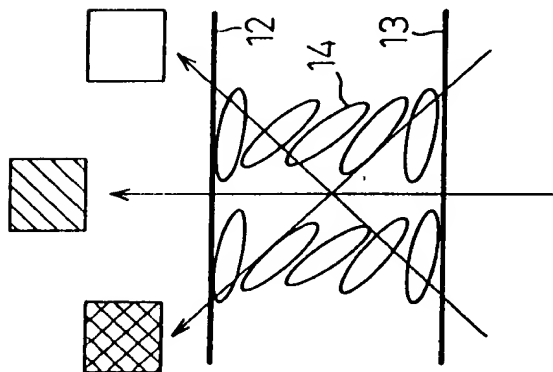


Fig.2C

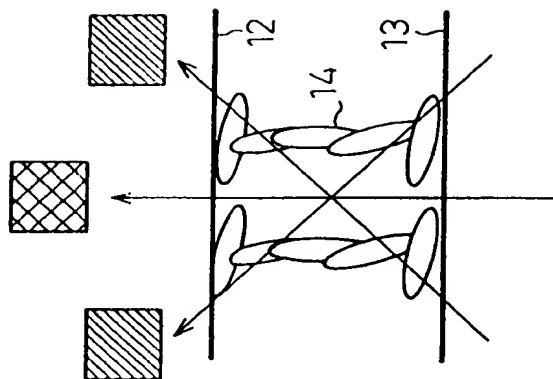


Fig.3A

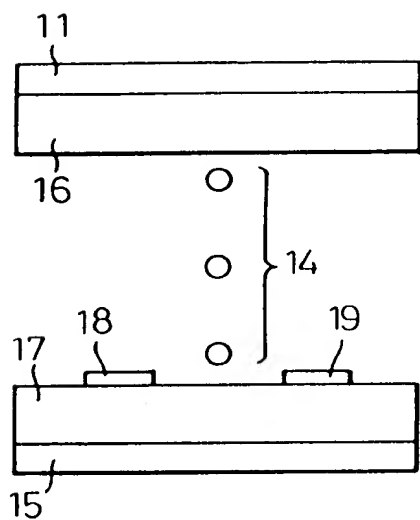


Fig.3C

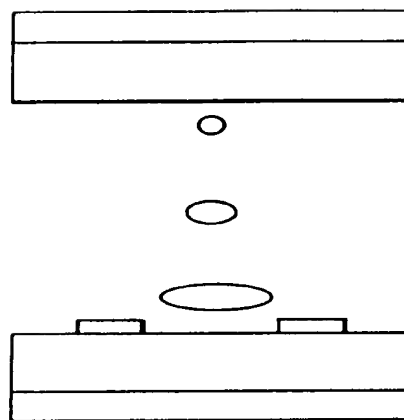


Fig.3B

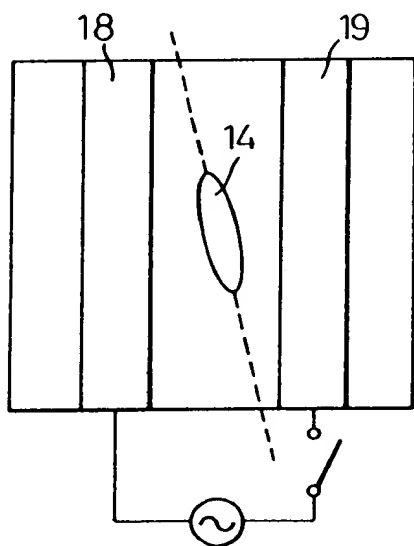


Fig.3D

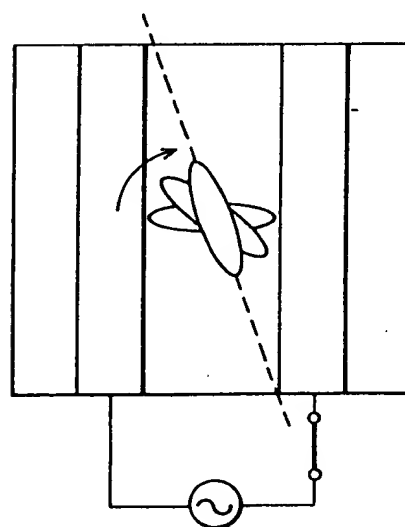
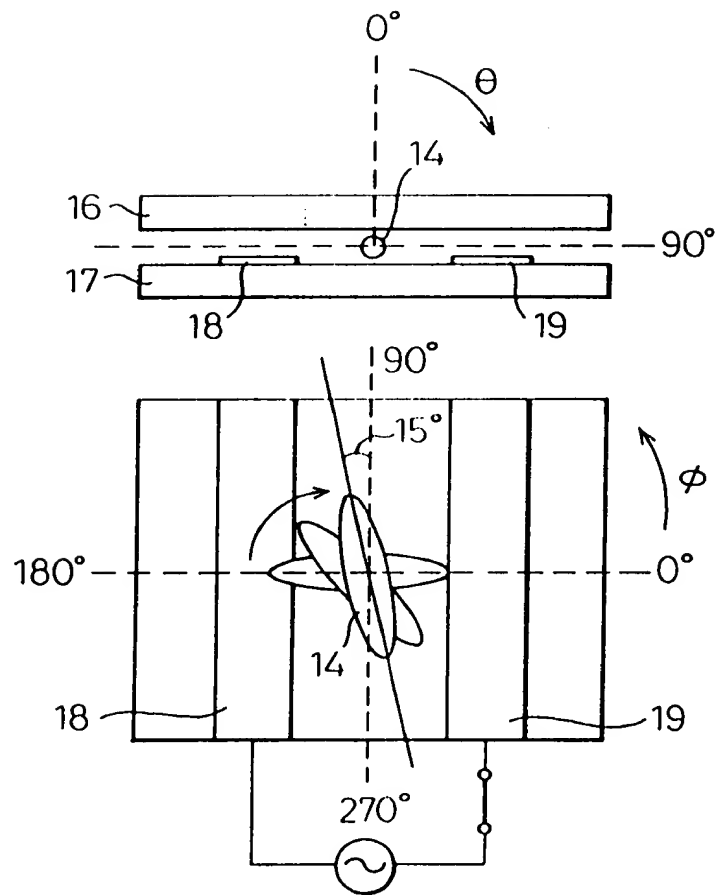
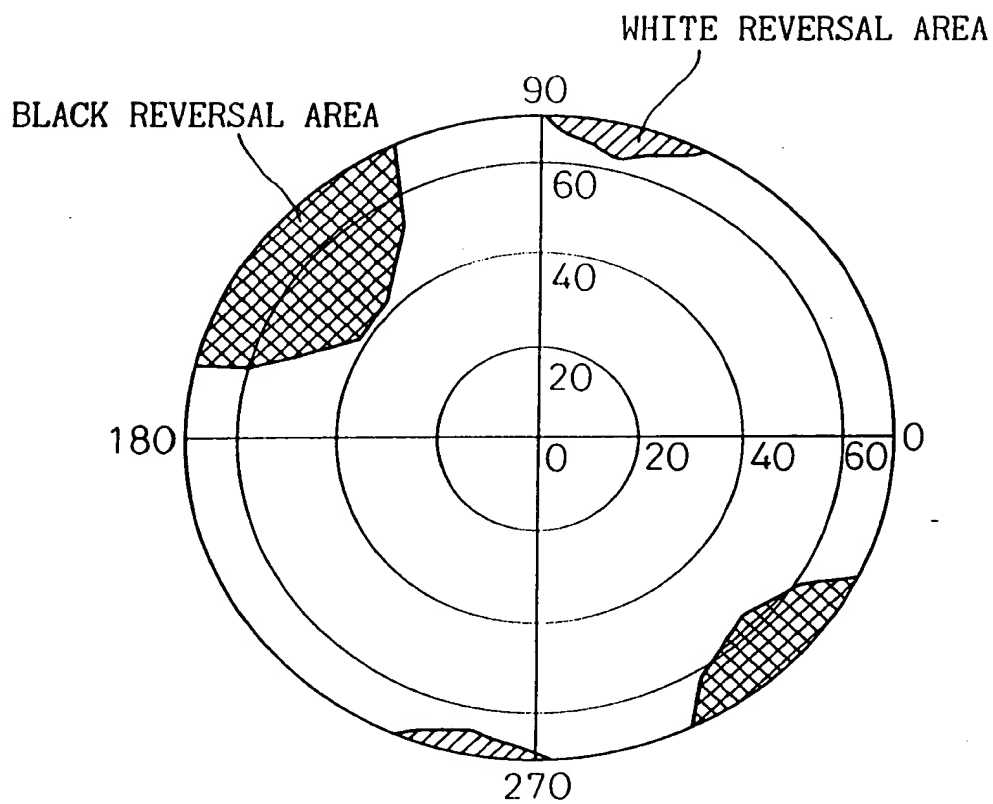


Fig. 4



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Fig. 5



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Fig. 6A

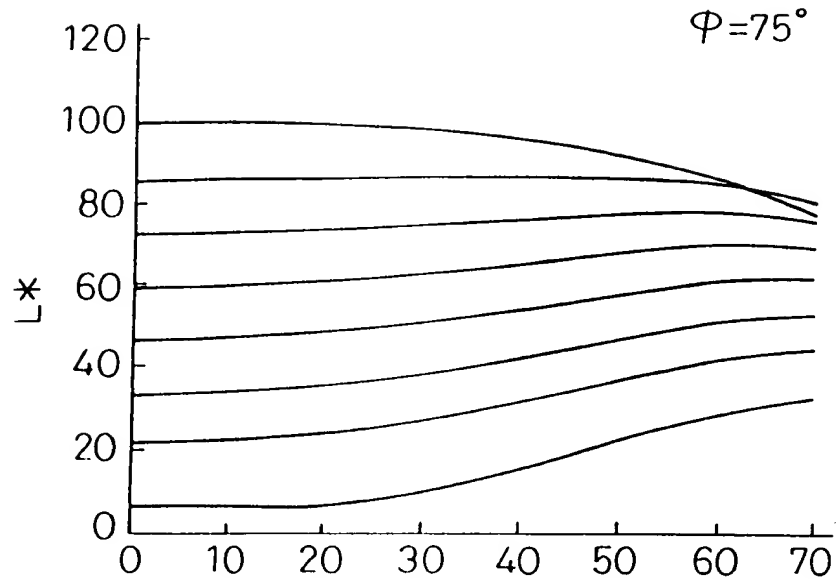
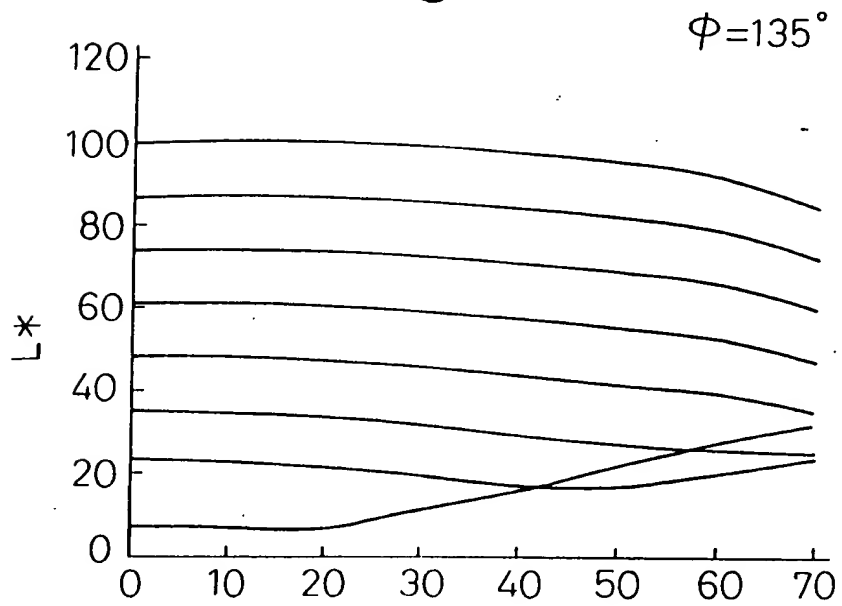


Fig. 6B



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Fig.7A

Fig.7B

Fig.7C

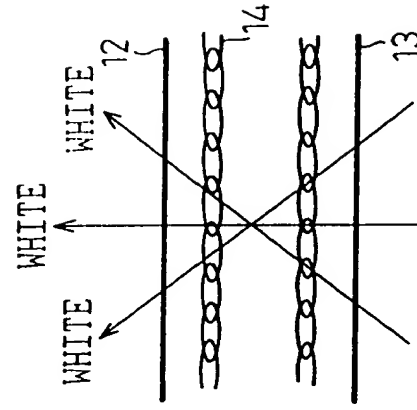
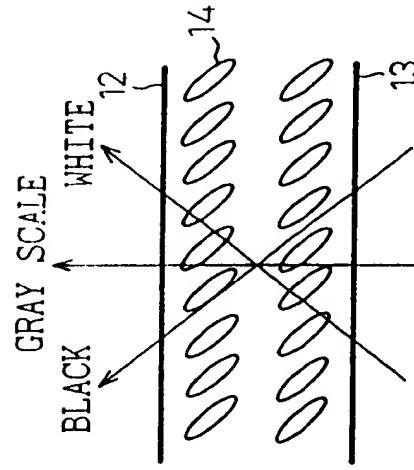
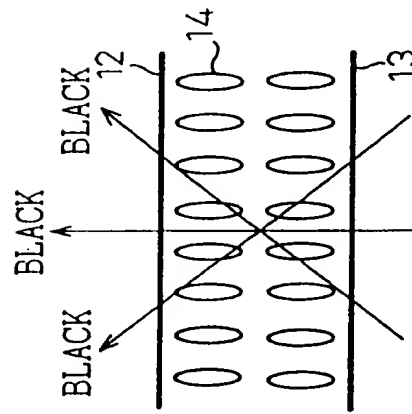


Fig.8A

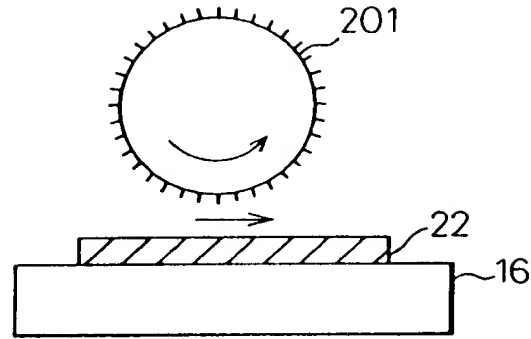


Fig.8B

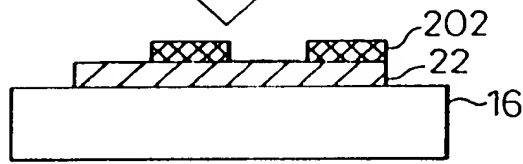


Fig.8C

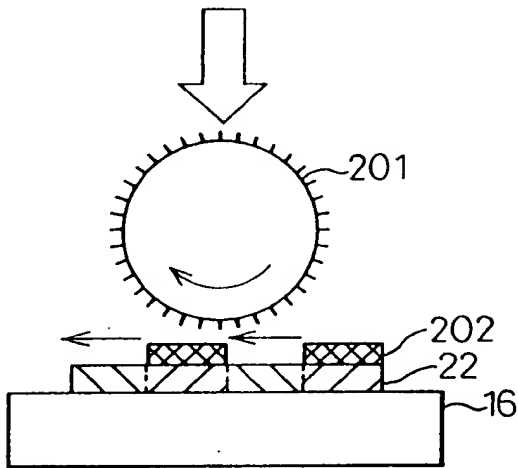


Fig.9A

Fig.9B

Fig.9C

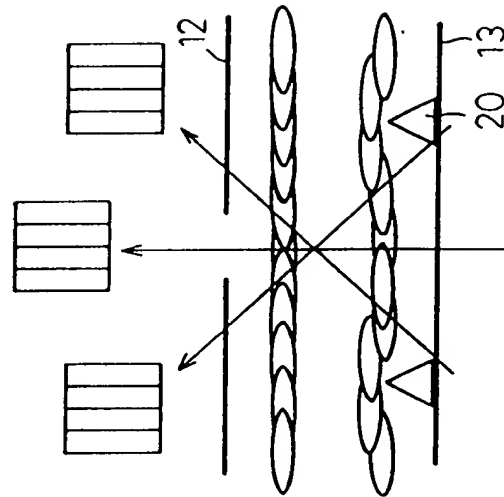
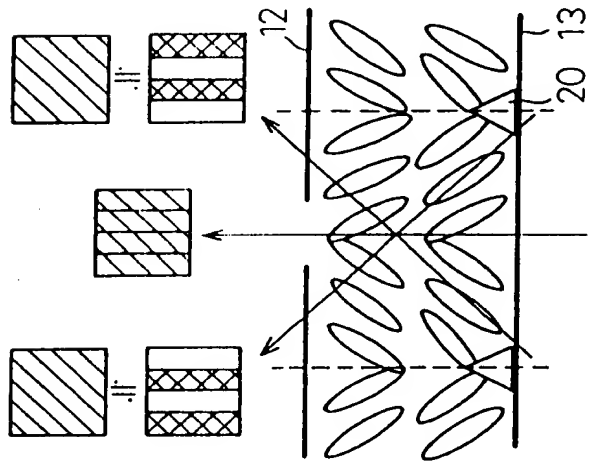
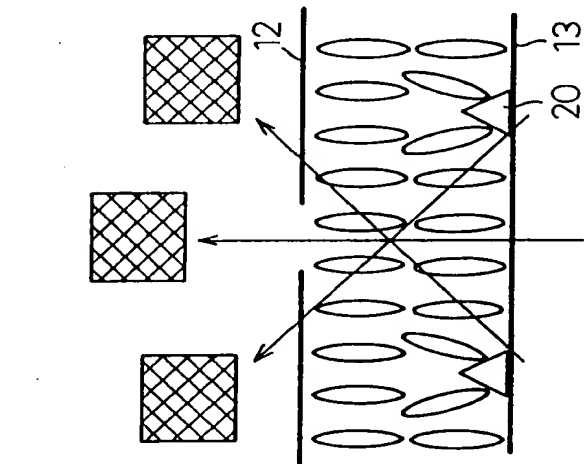


Fig.10A

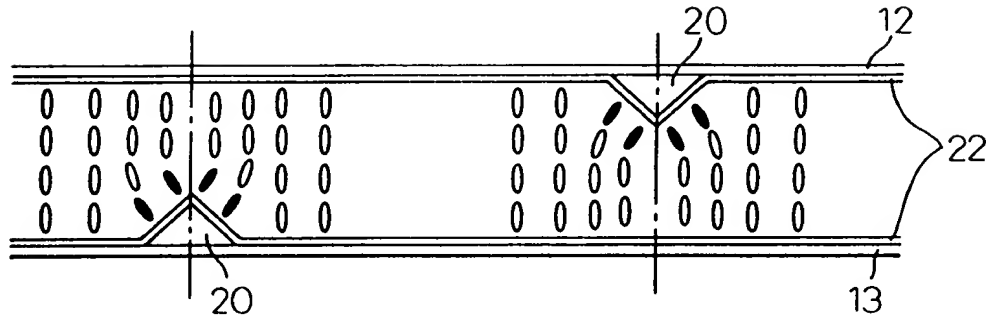


Fig.10B

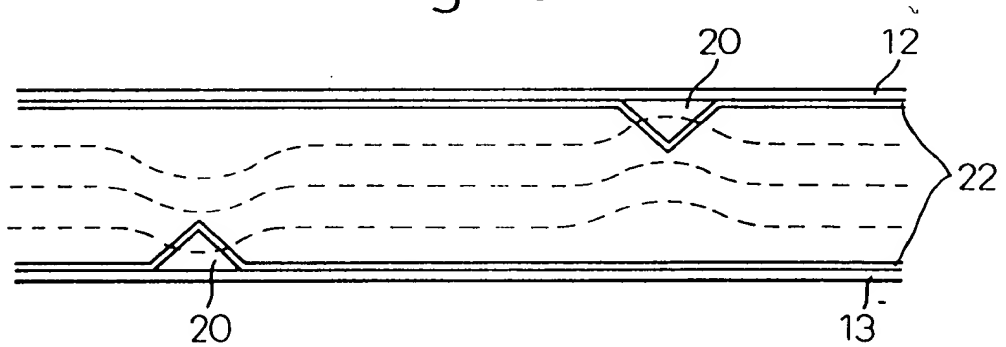


Fig.10C

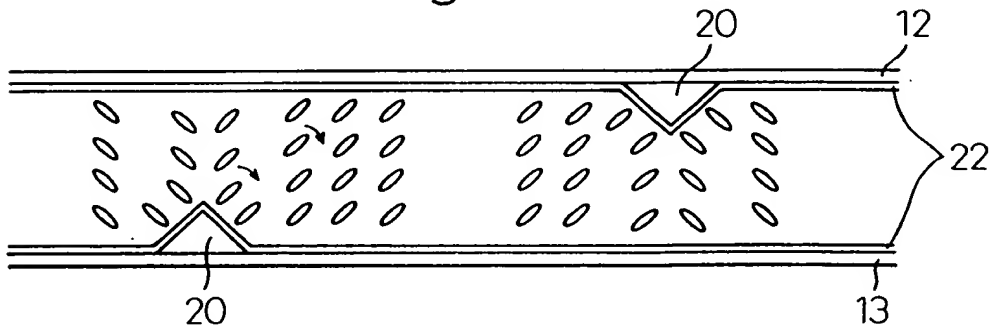


Fig.11A

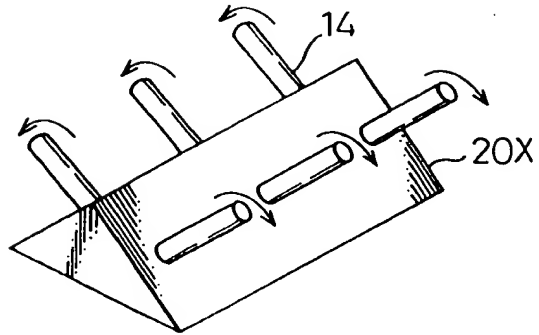


Fig.11B

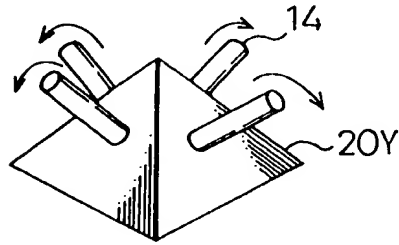


Fig.11C

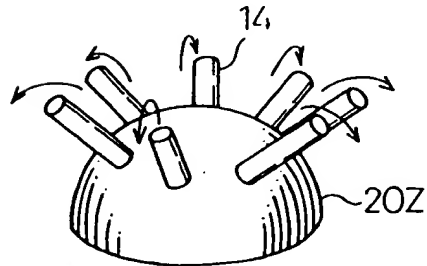


Fig.12A

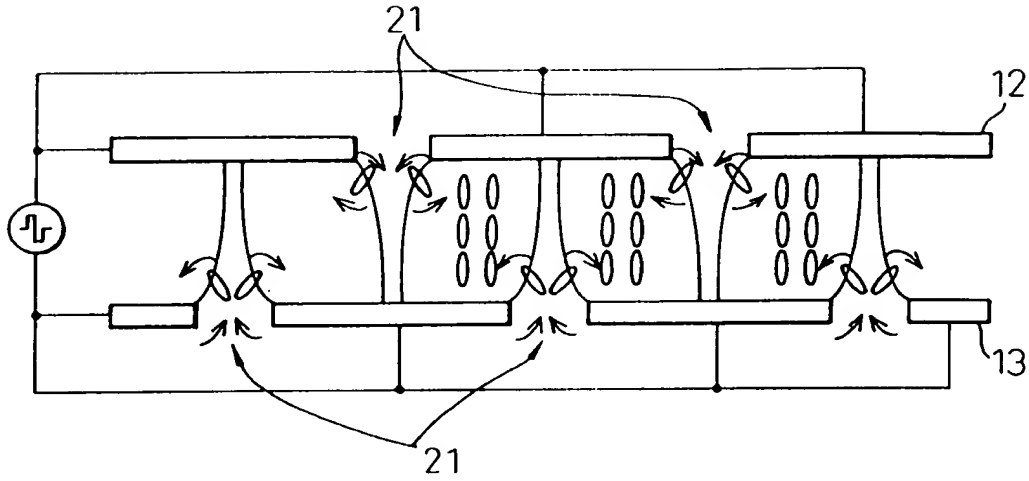


Fig.12B

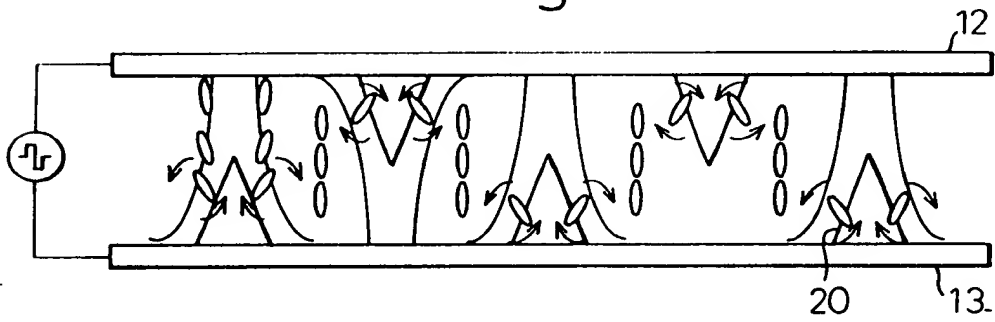
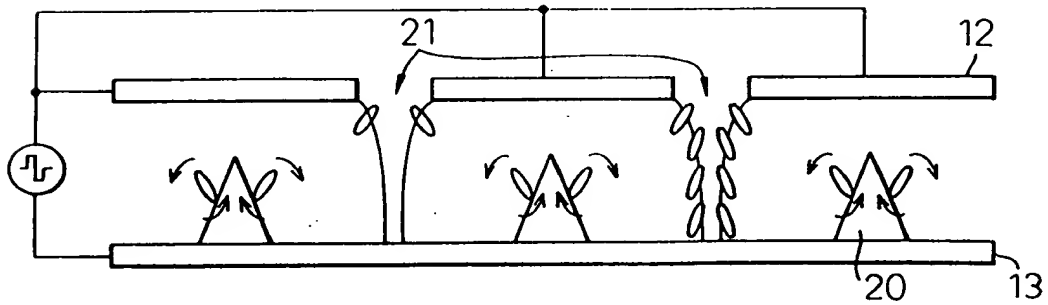
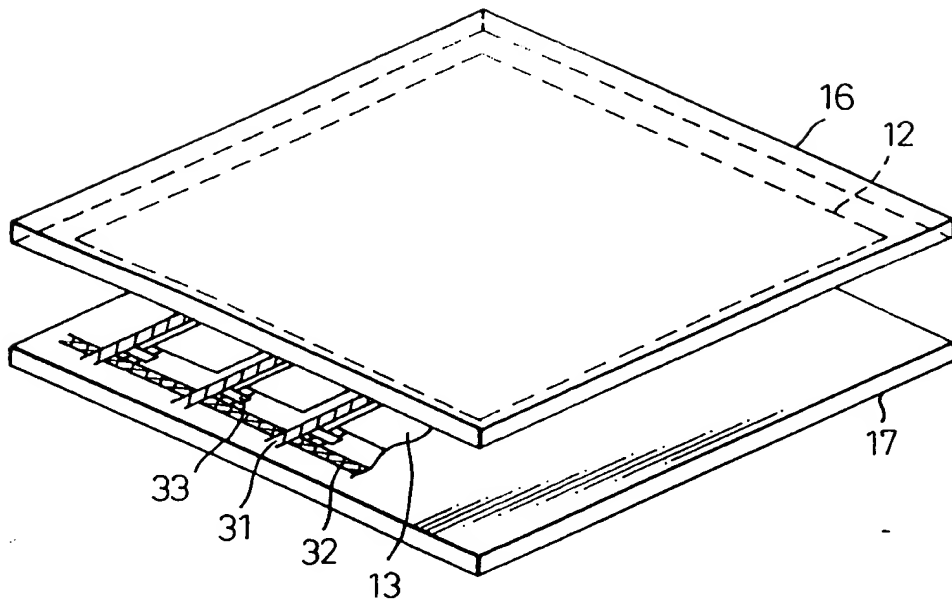


Fig.12C



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Fig.13



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Fig.14A

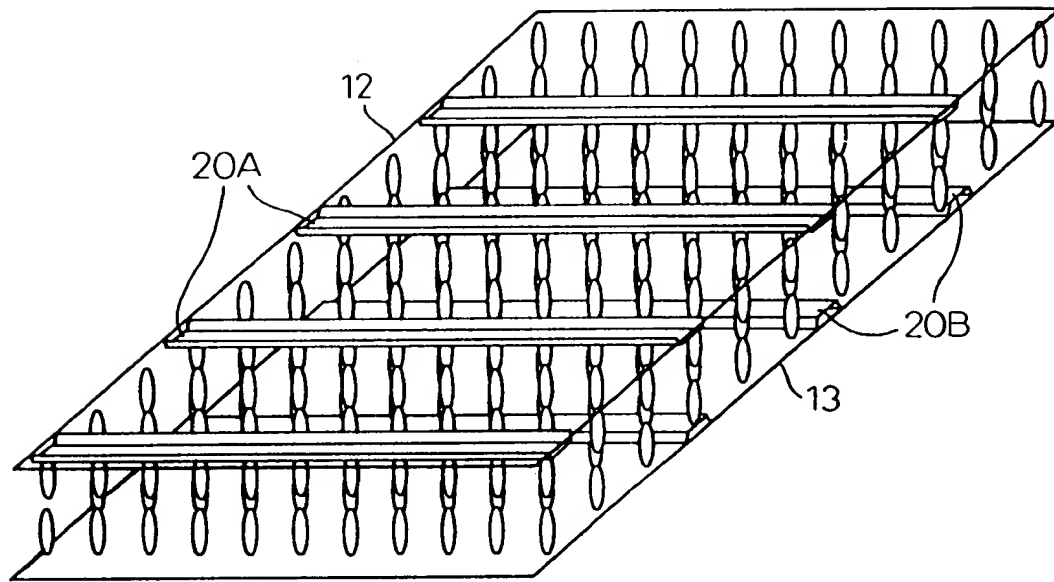


Fig.14B

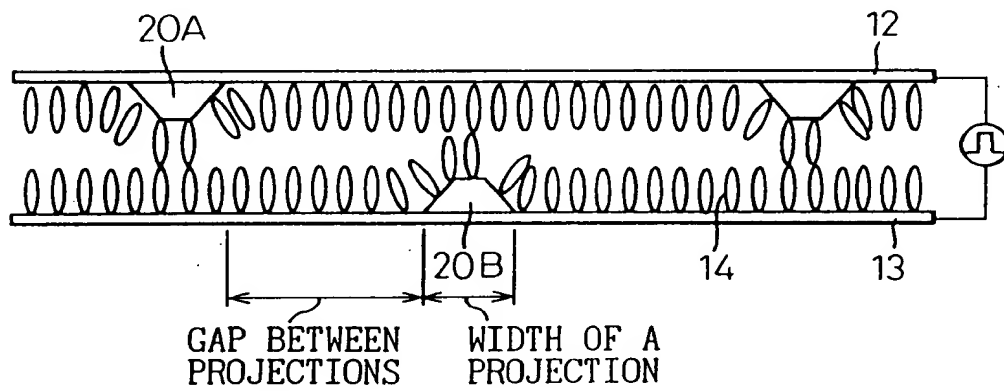


Fig.15

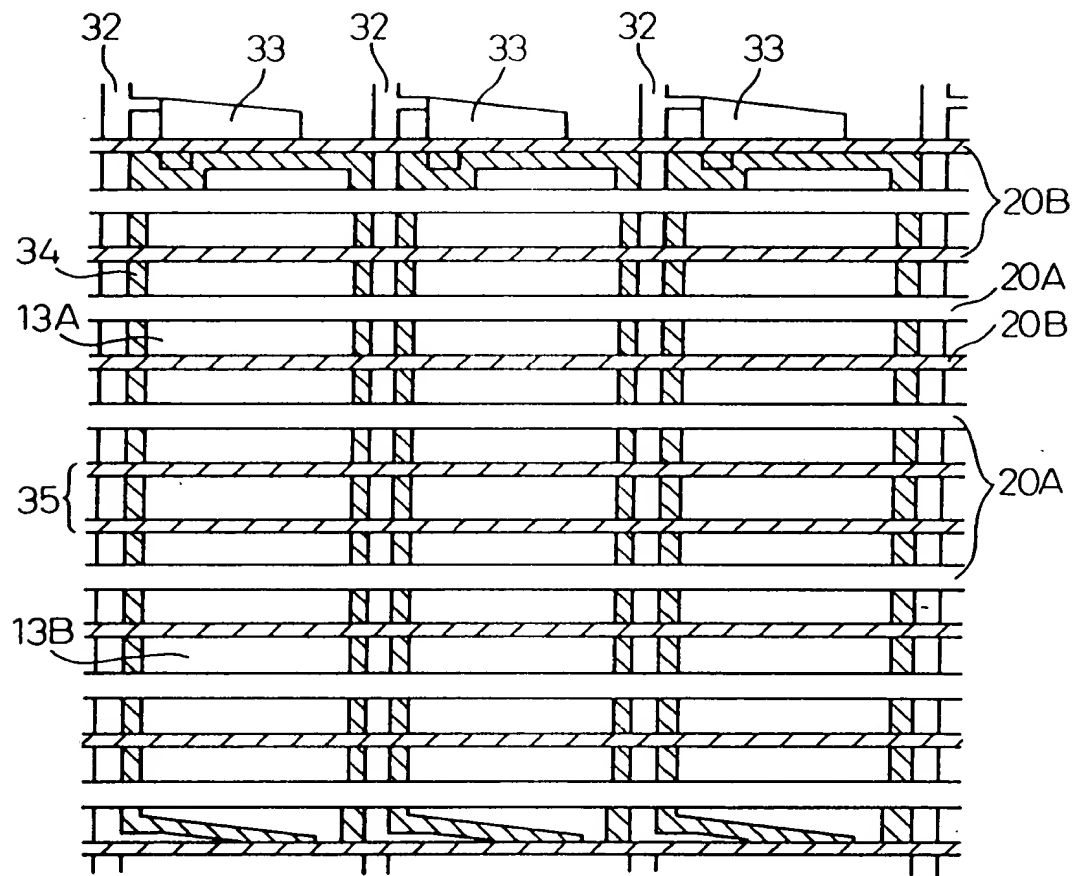


Fig.16

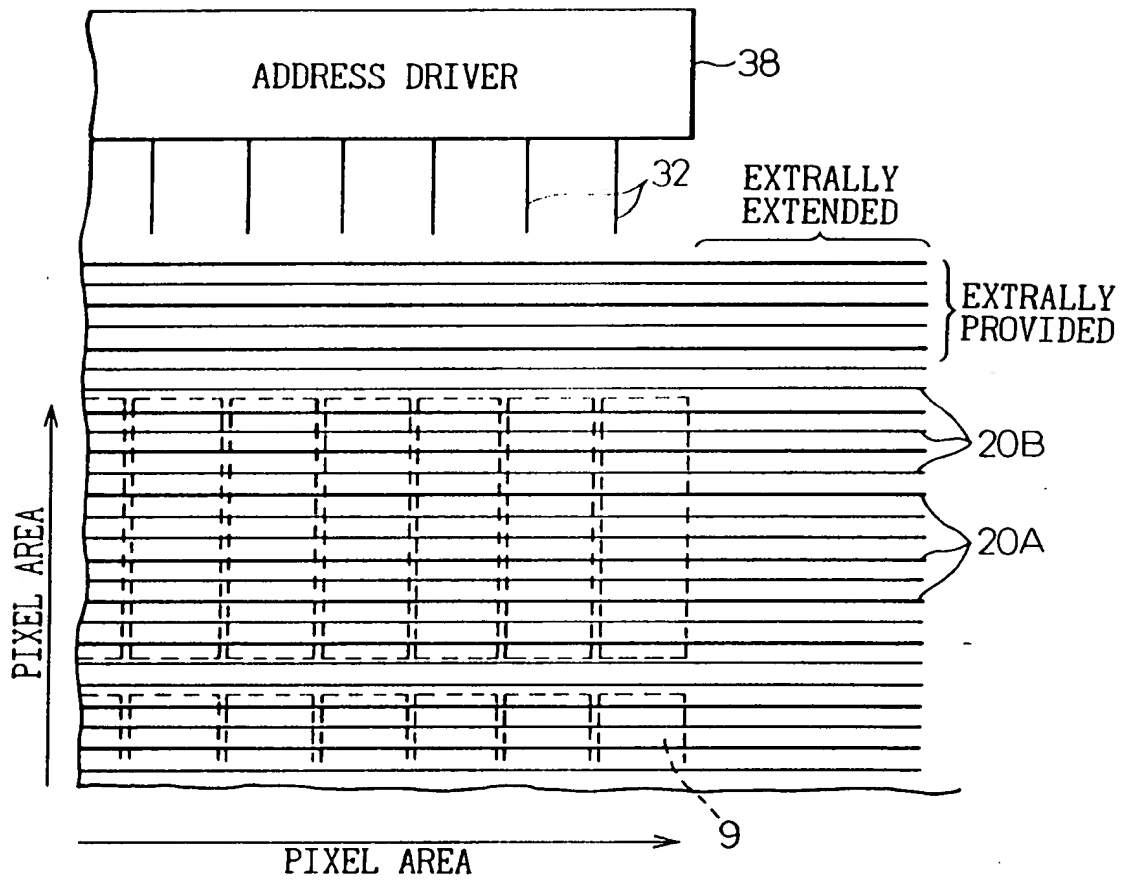


Fig.18A

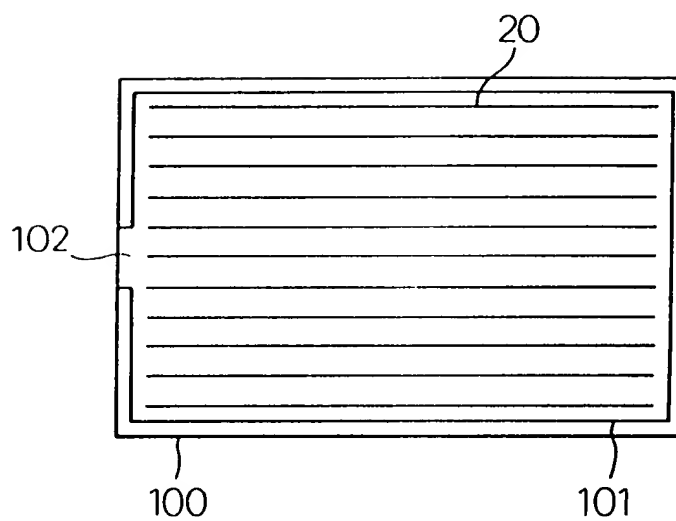


Fig.18B

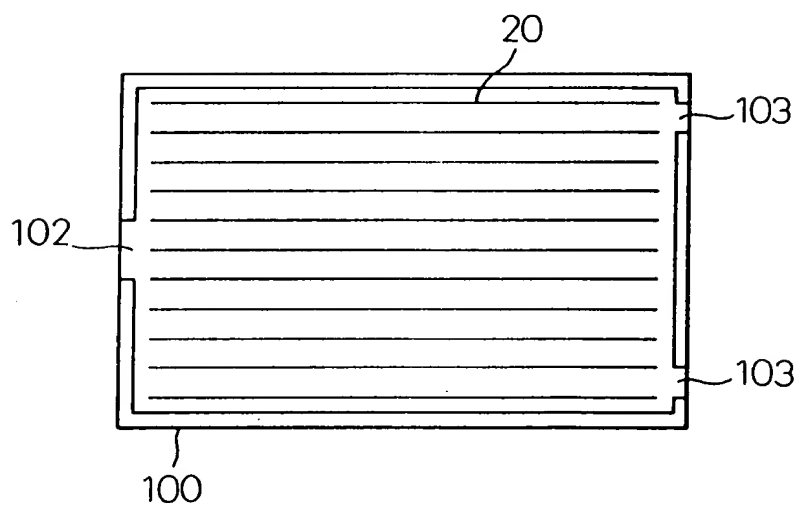
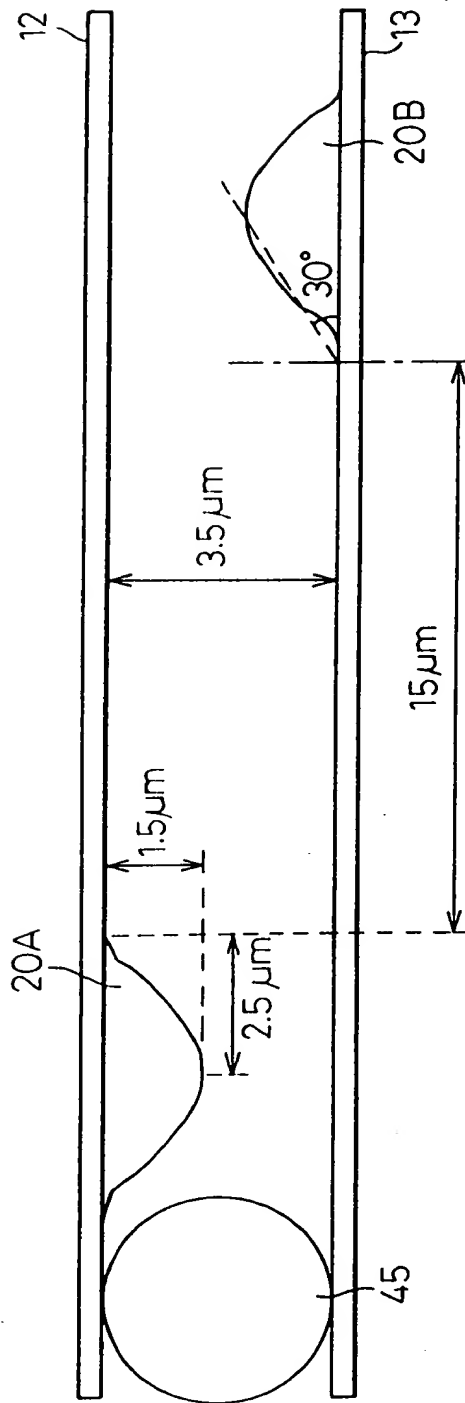


Fig.19



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Fig.20A

ON RESPONSE SPEED

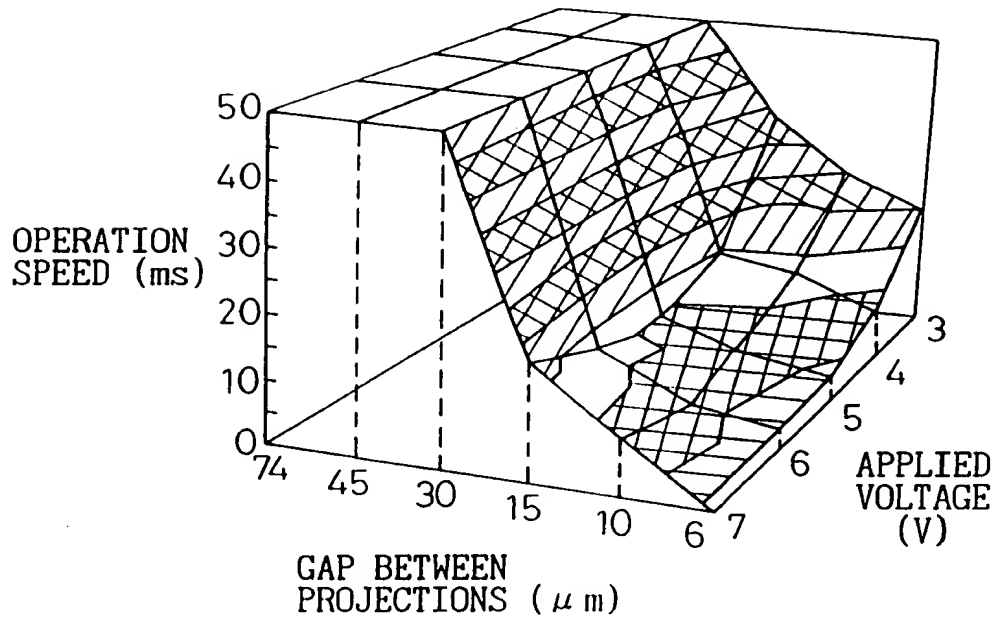
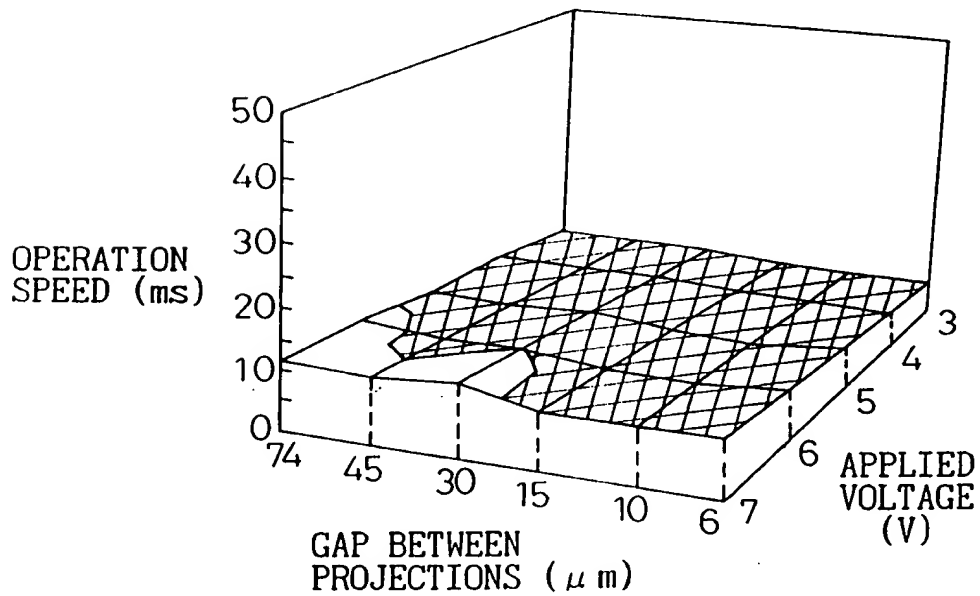


Fig.20B

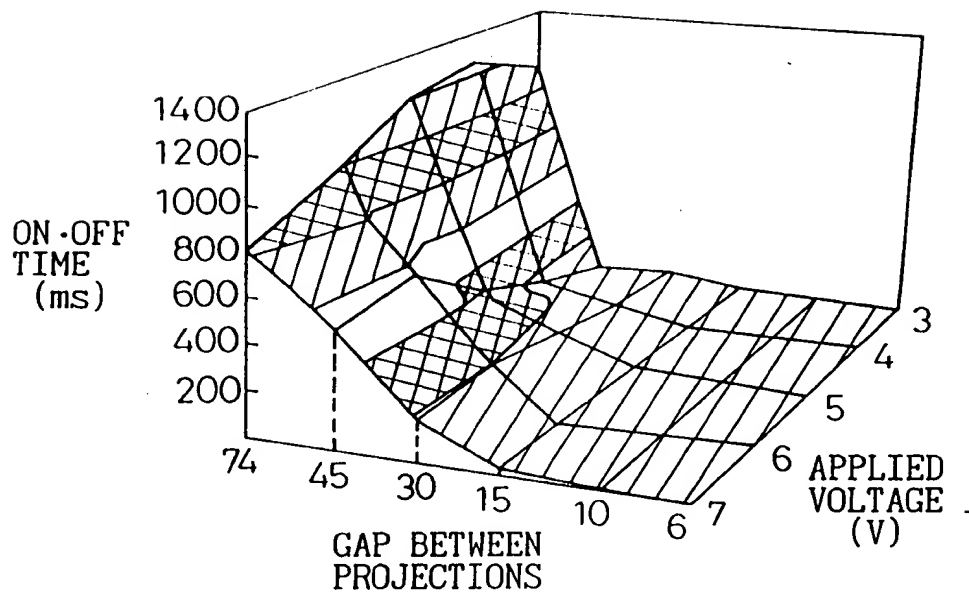
OFF RESPONSE SPEED



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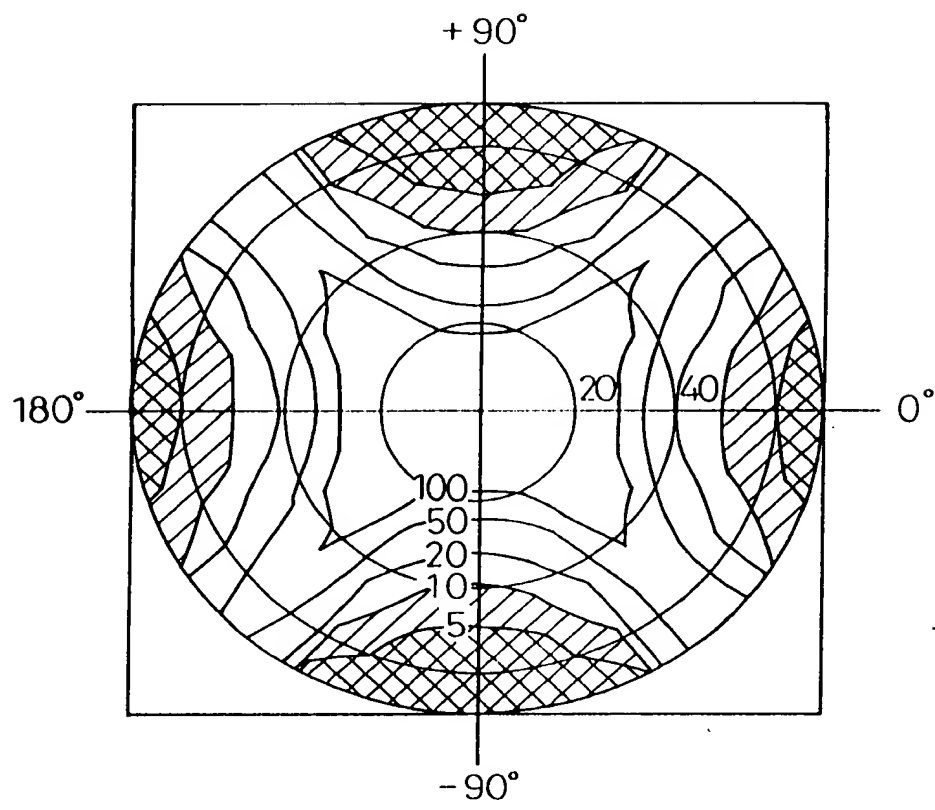
Fig. 21



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Fig. 22



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Fig.23A

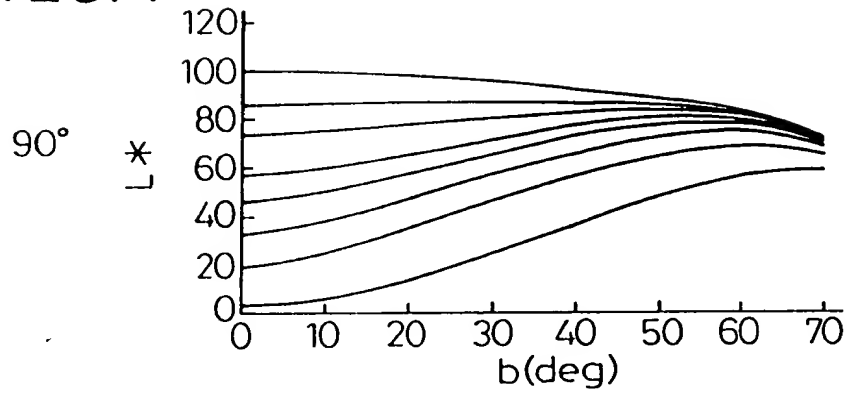


Fig.23B

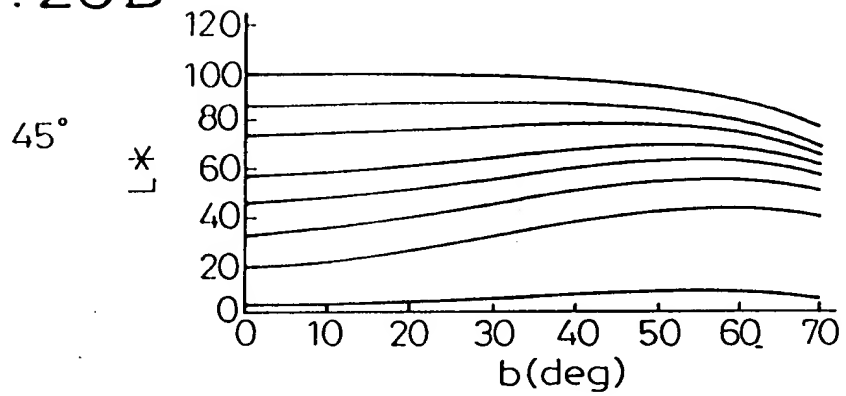
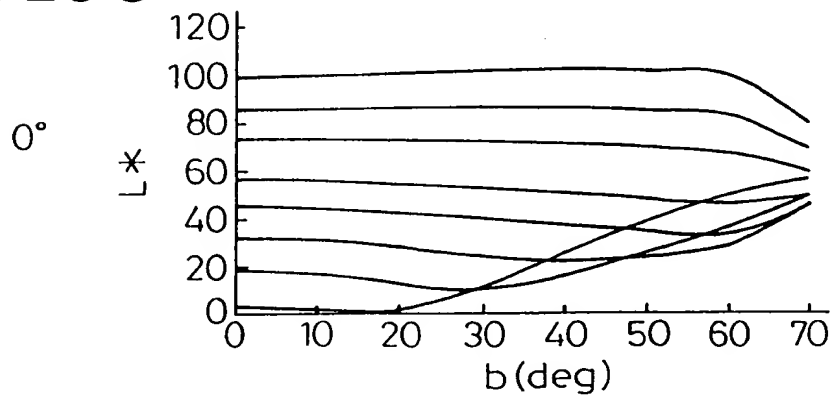


Fig.23C



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Fig. 24A

-45°

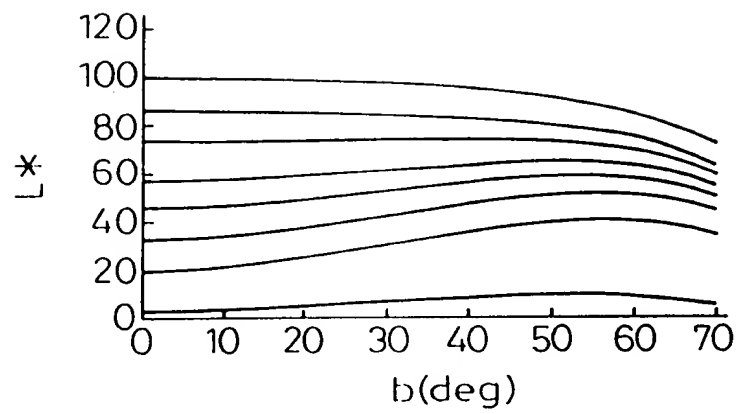
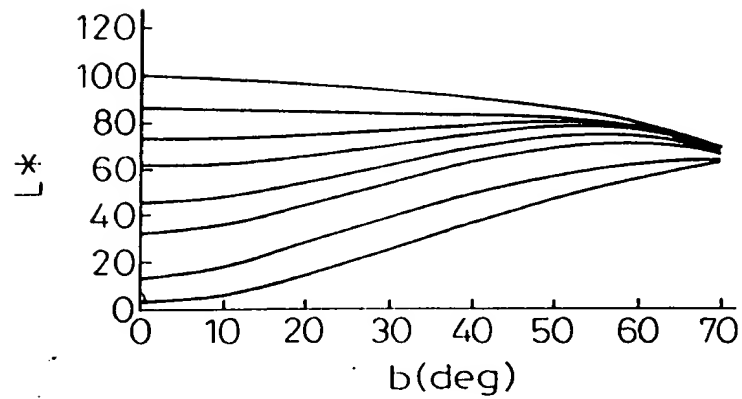


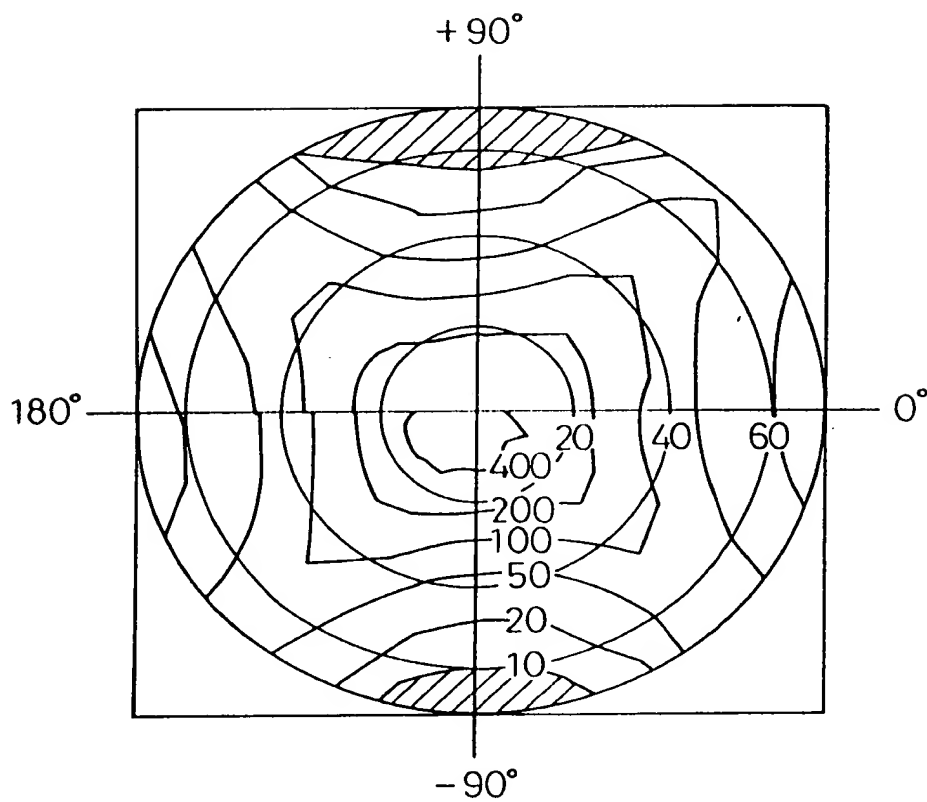
Fig. 24B

-90°



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Fig. 25



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Fig.26A

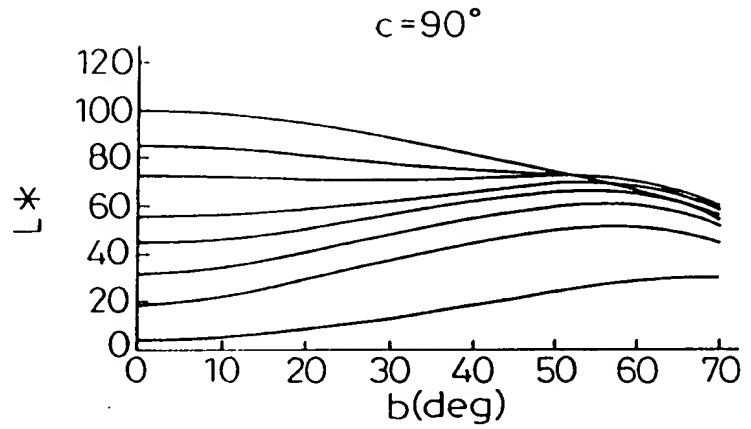


Fig.26B

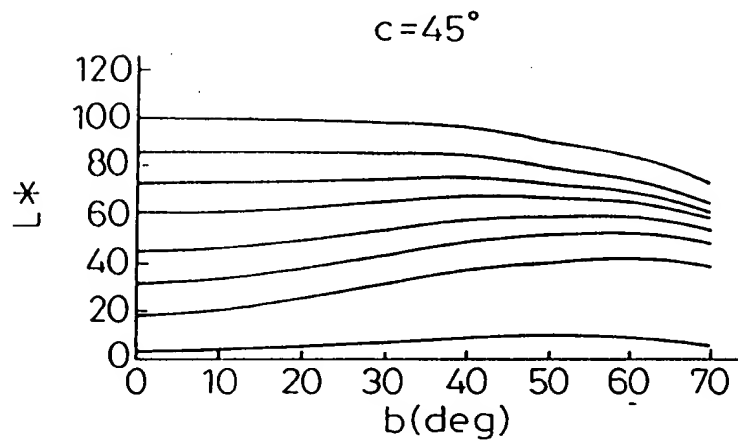
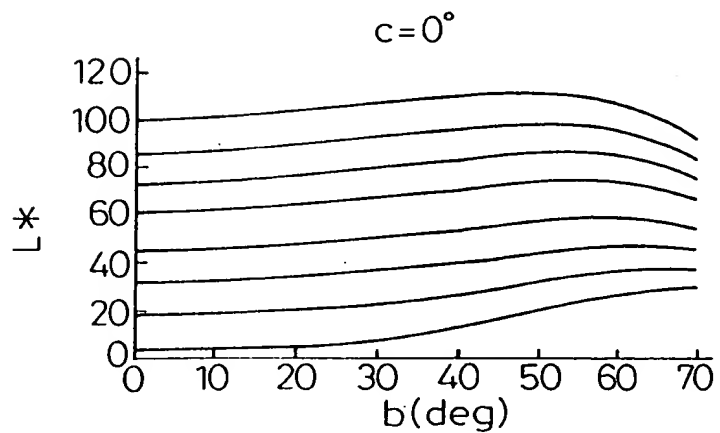


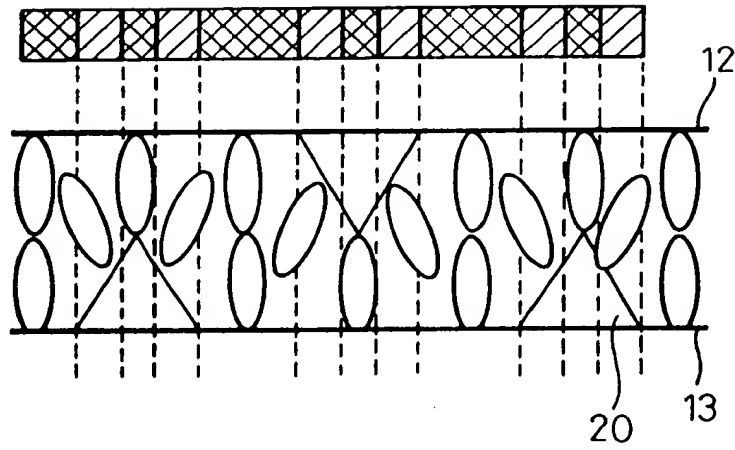
Fig.26C



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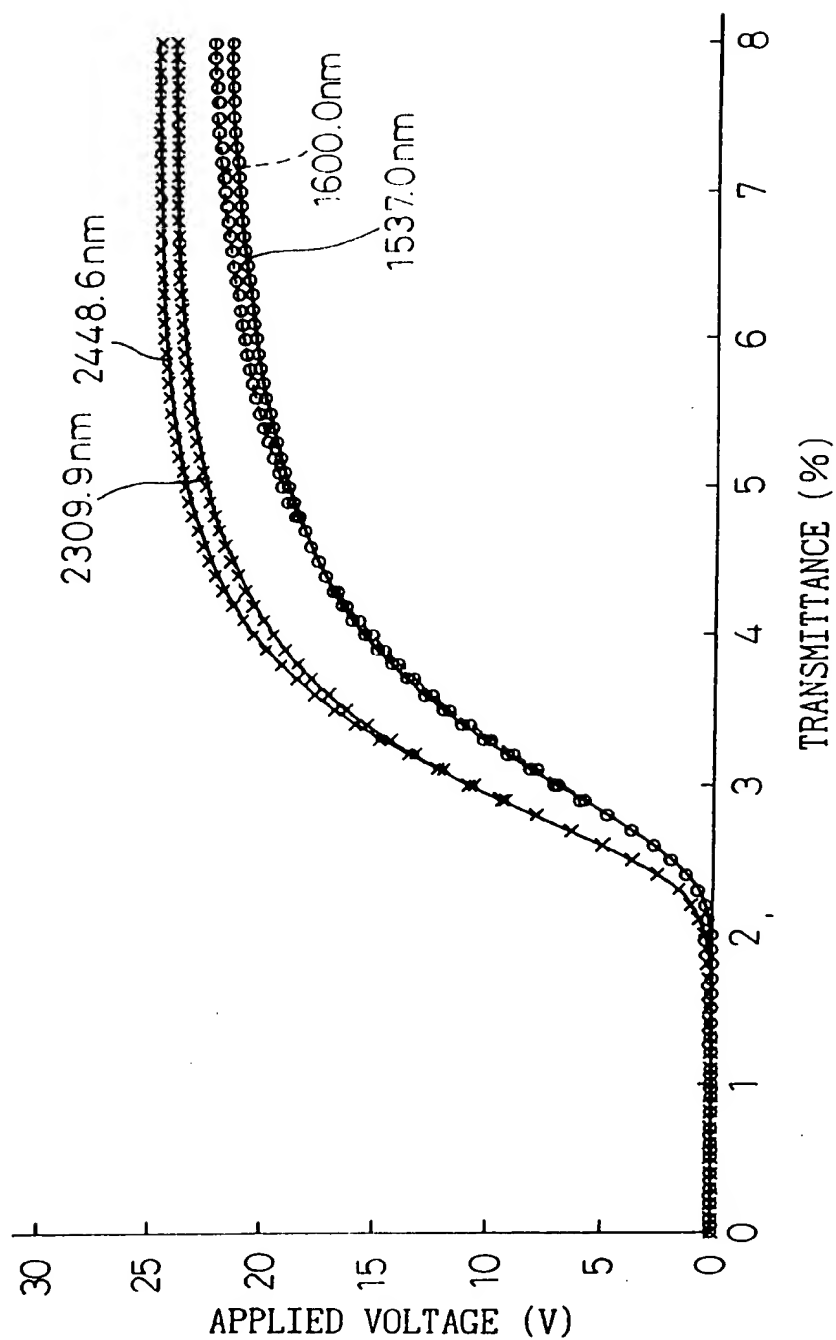
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Fig. 27



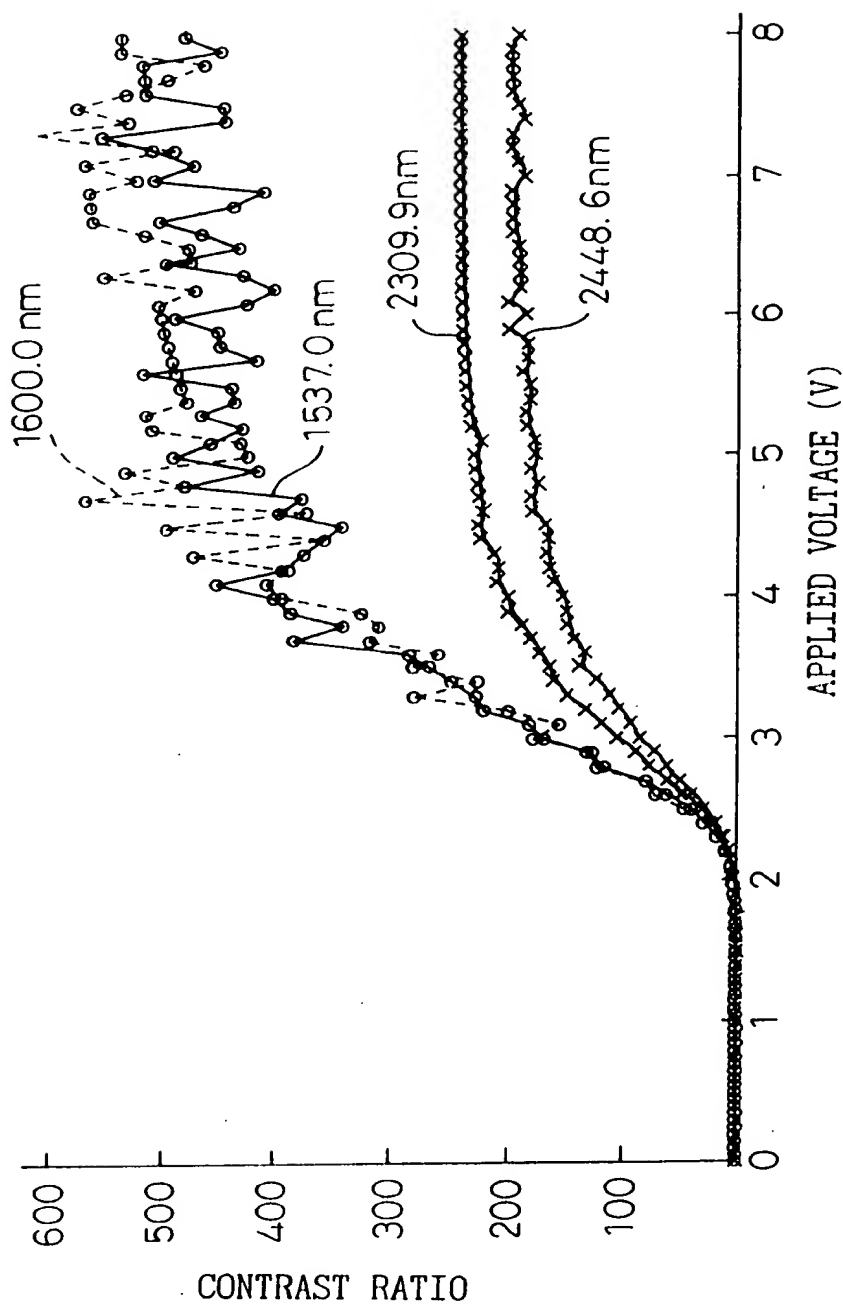
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Fig.28



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Fig. 29



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Fig.30

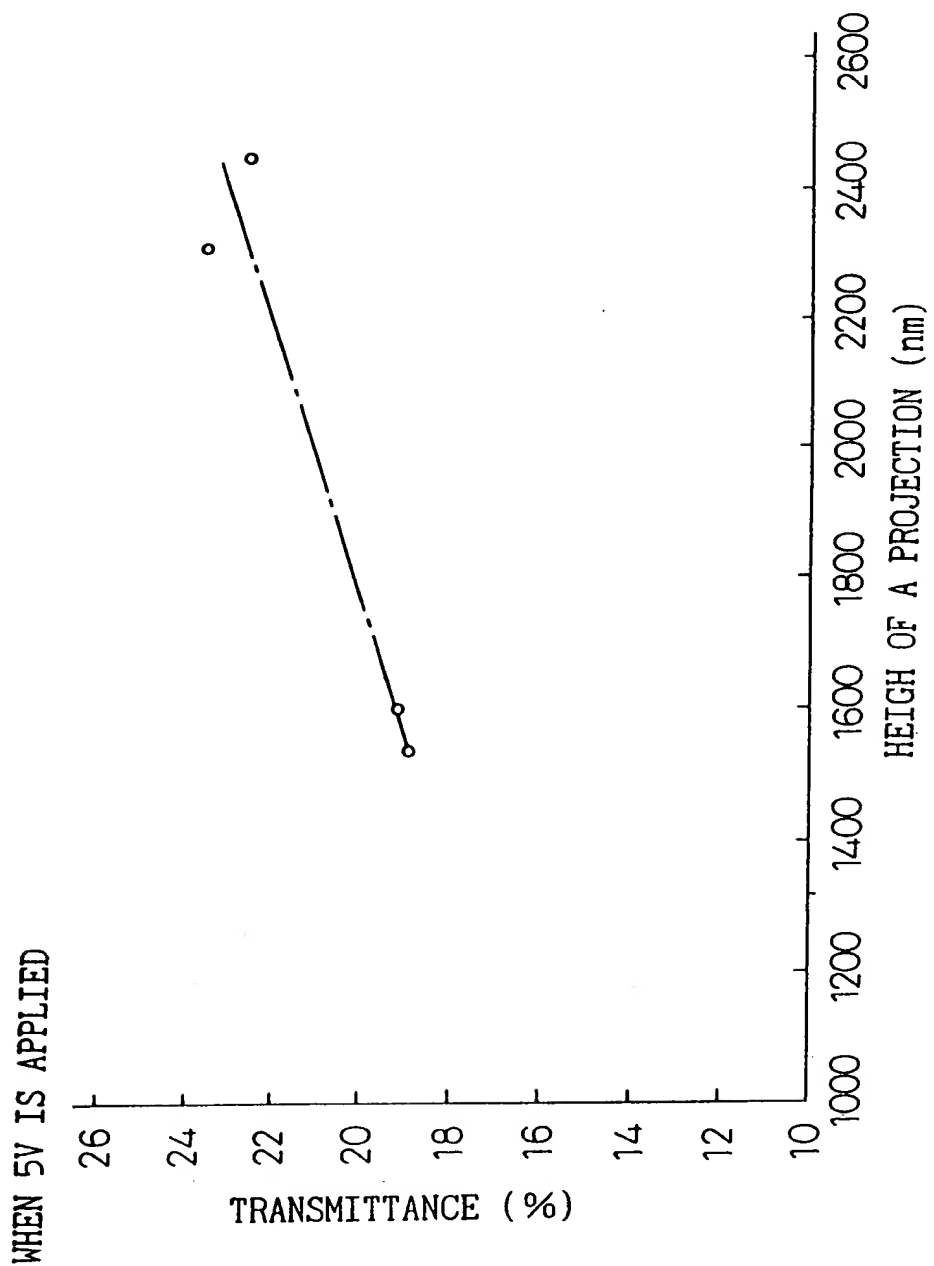
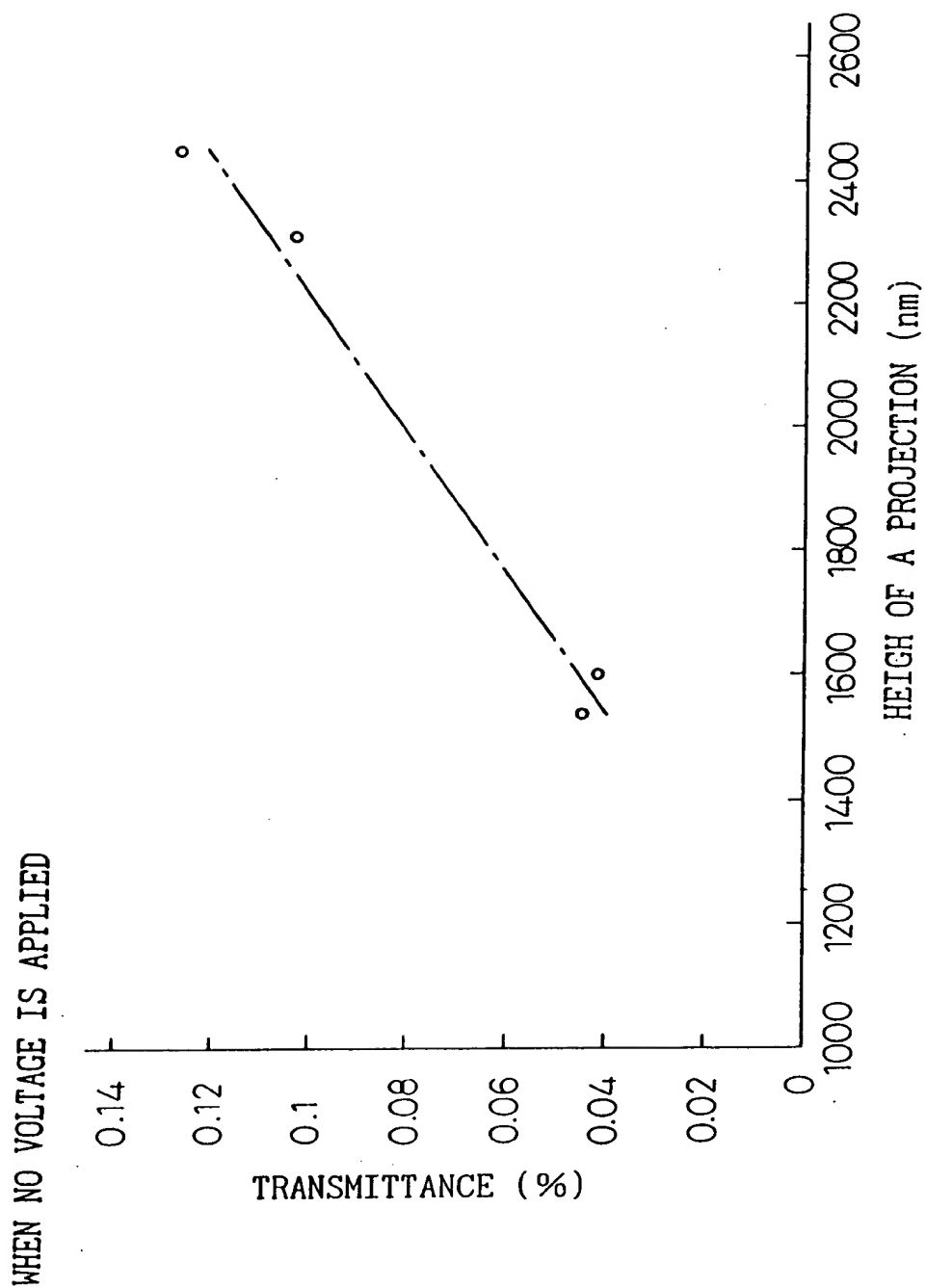
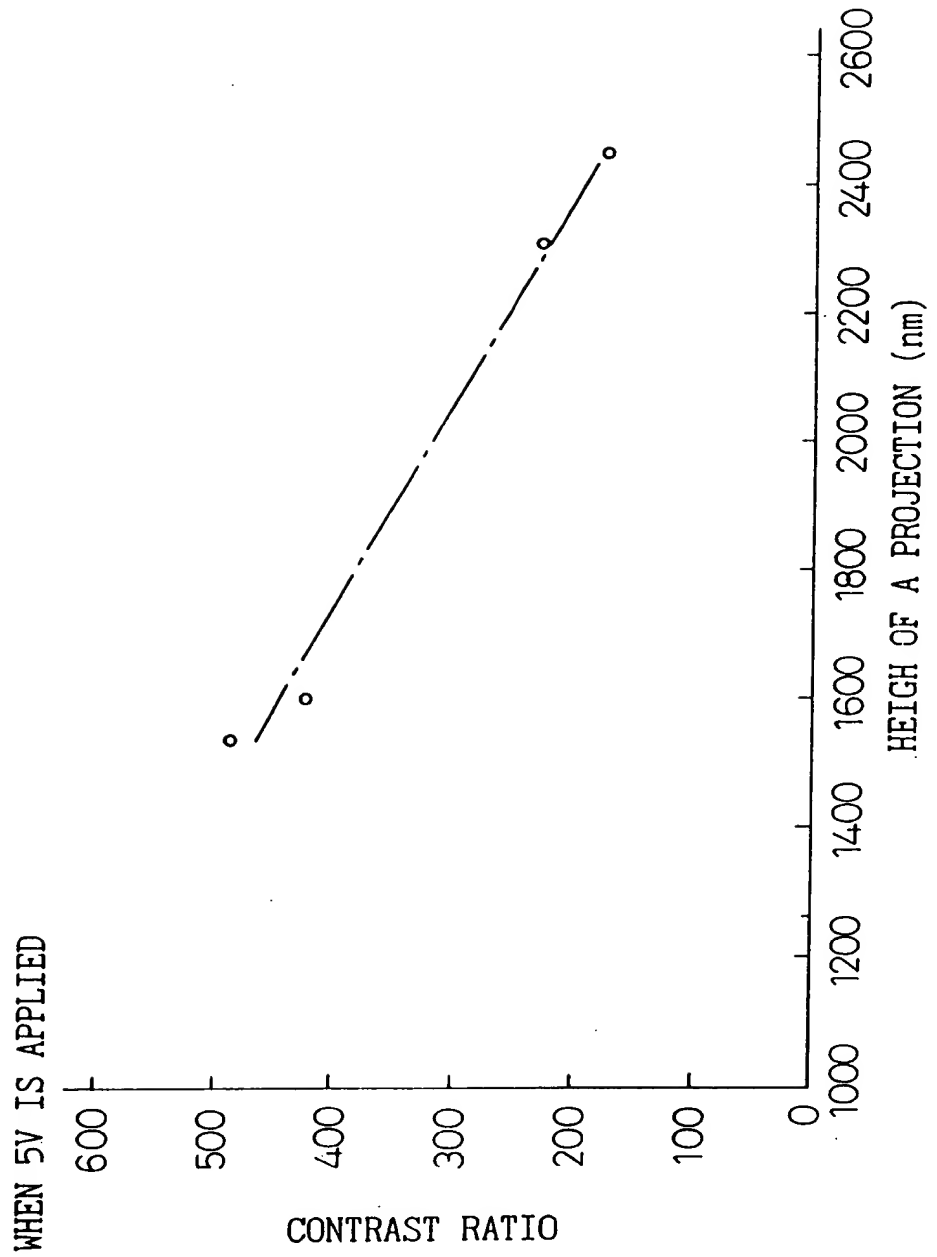


Fig.31



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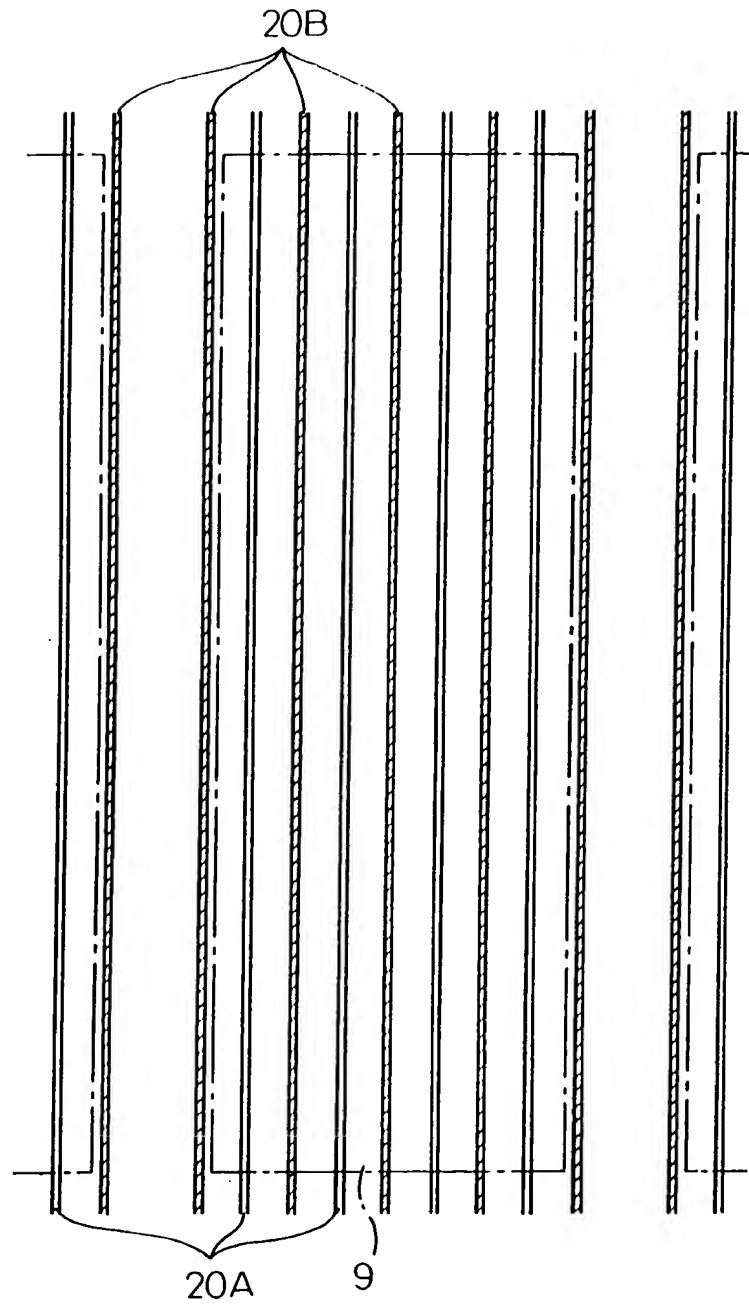
Fig.32



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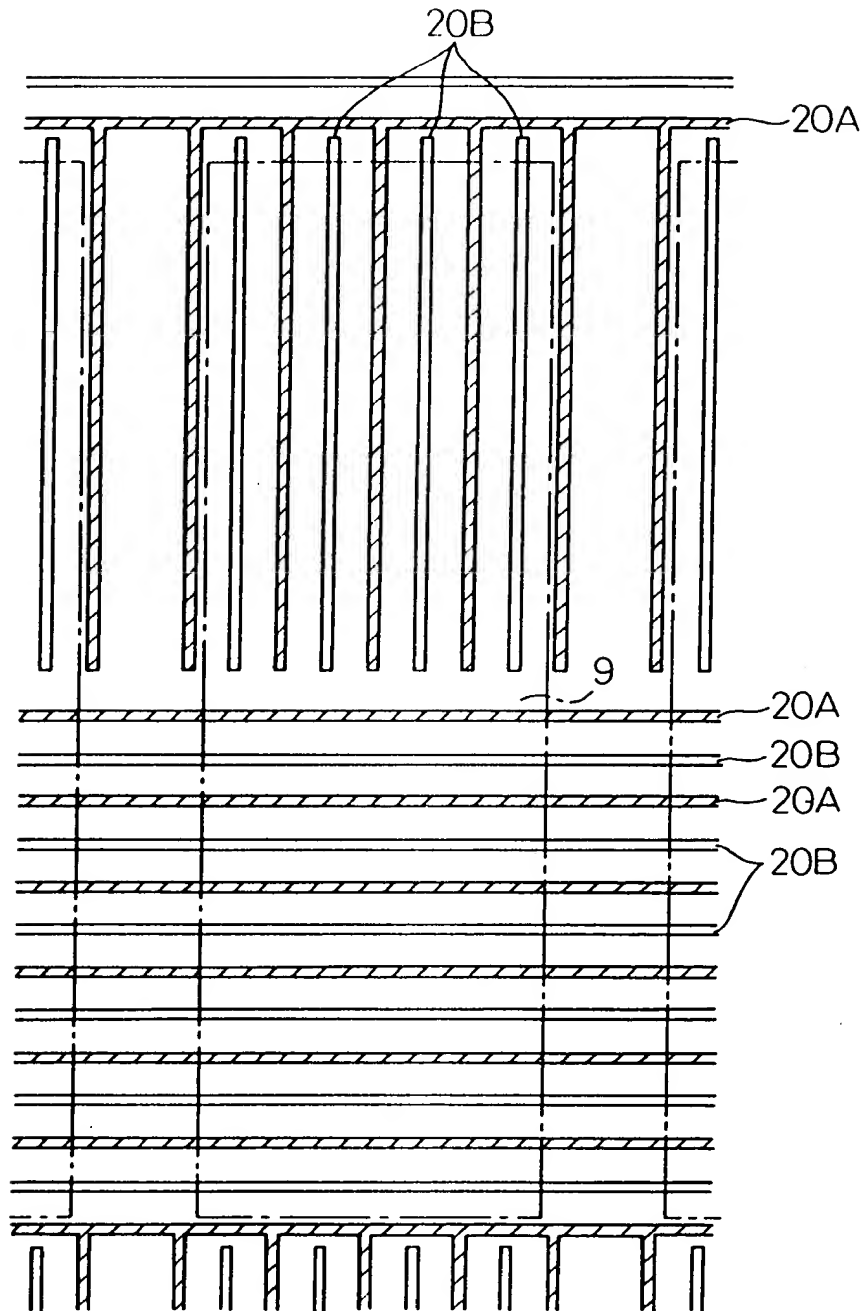
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Fig. 33



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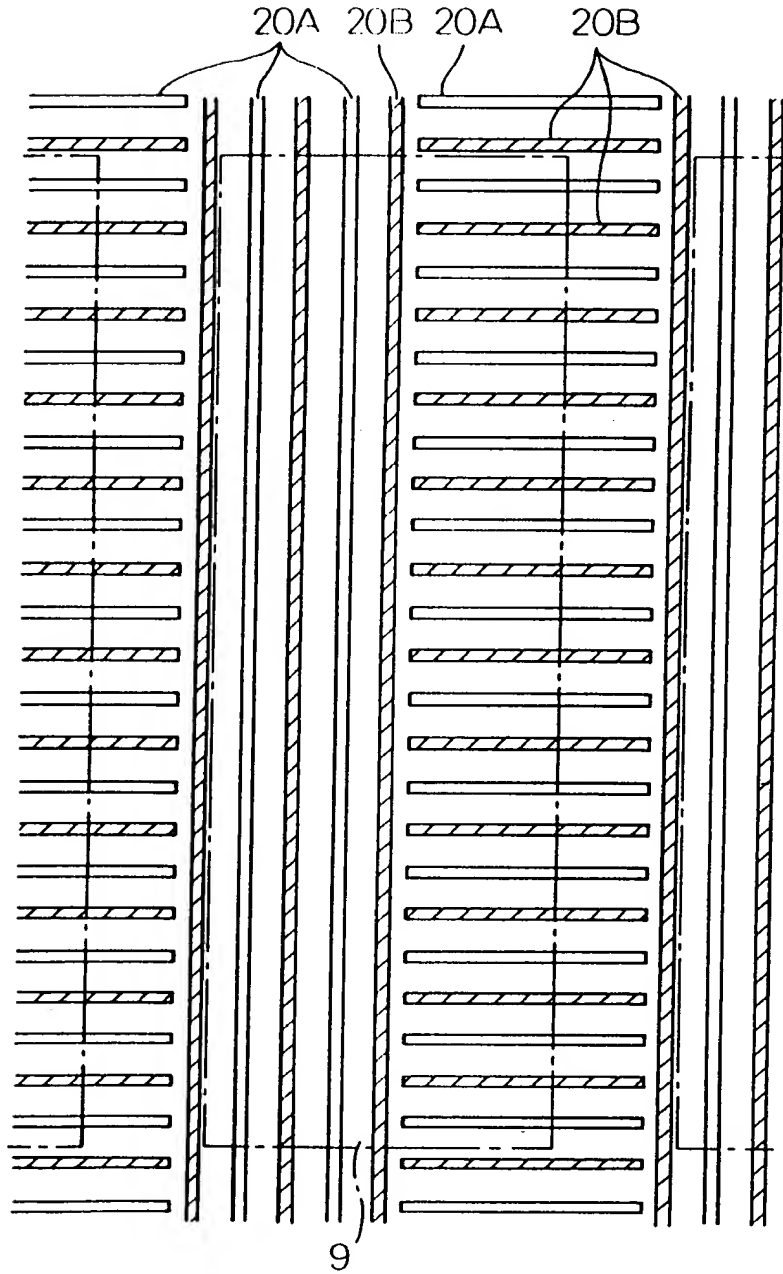
Fig. 34



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Fig. 35



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Fig. 36

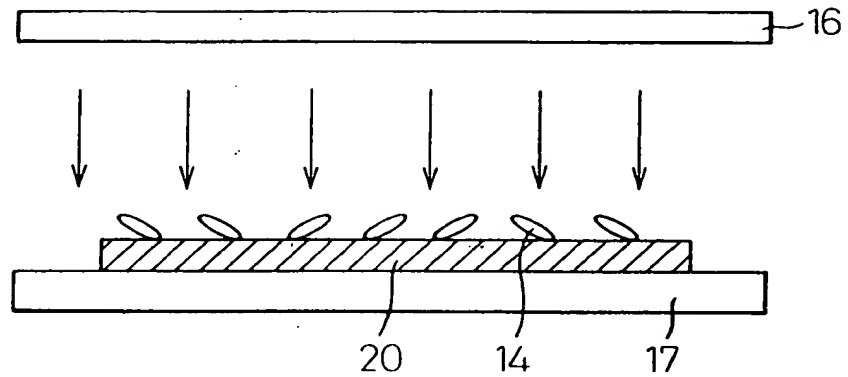


Fig. 37A

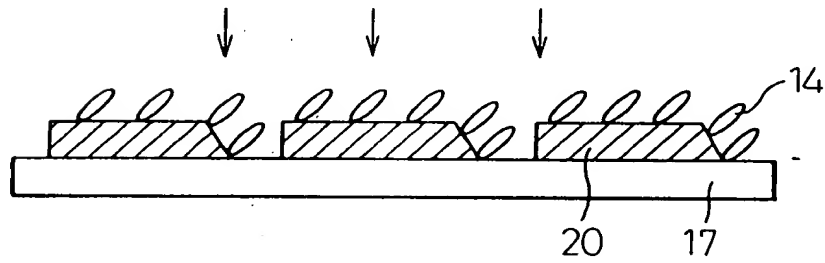


Fig. 37B

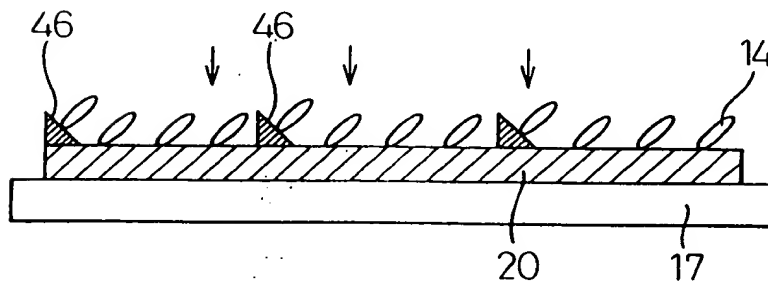


Fig.38A

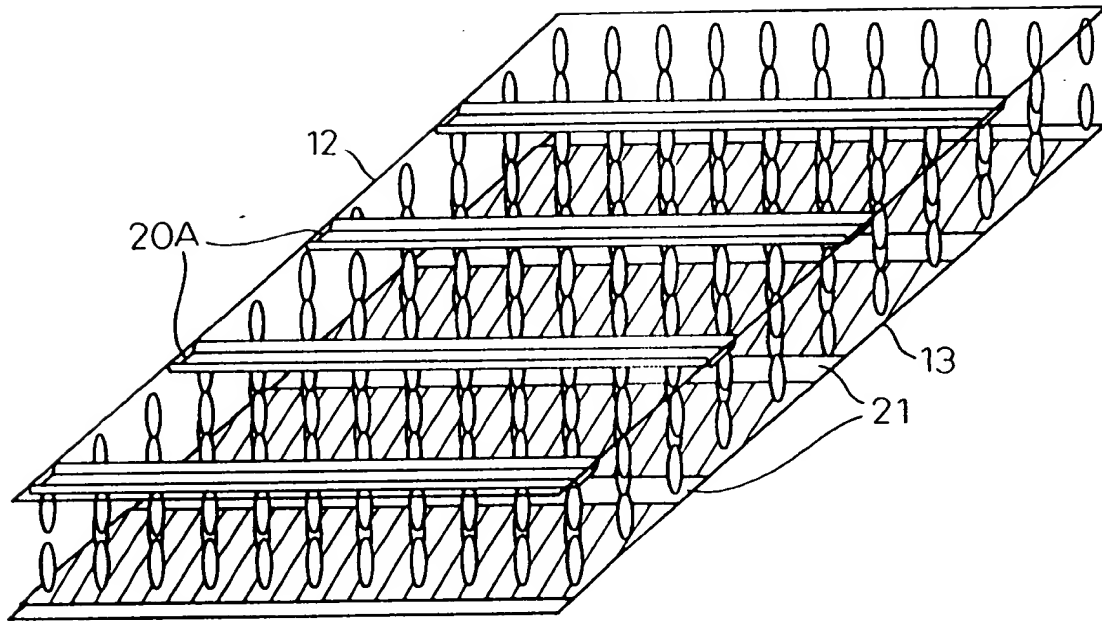


Fig.38B

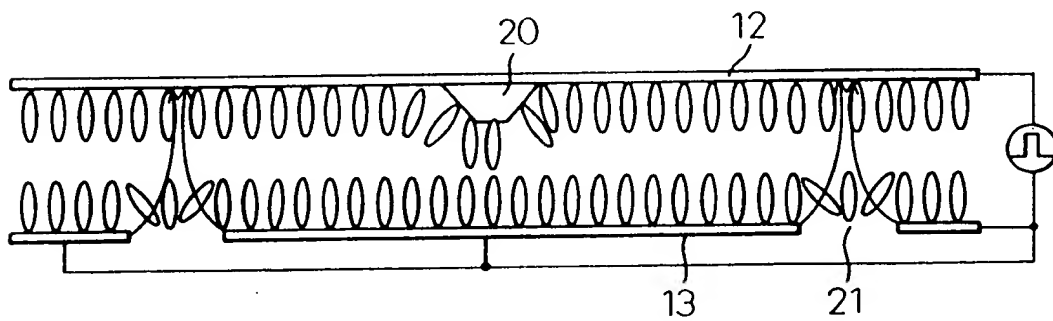
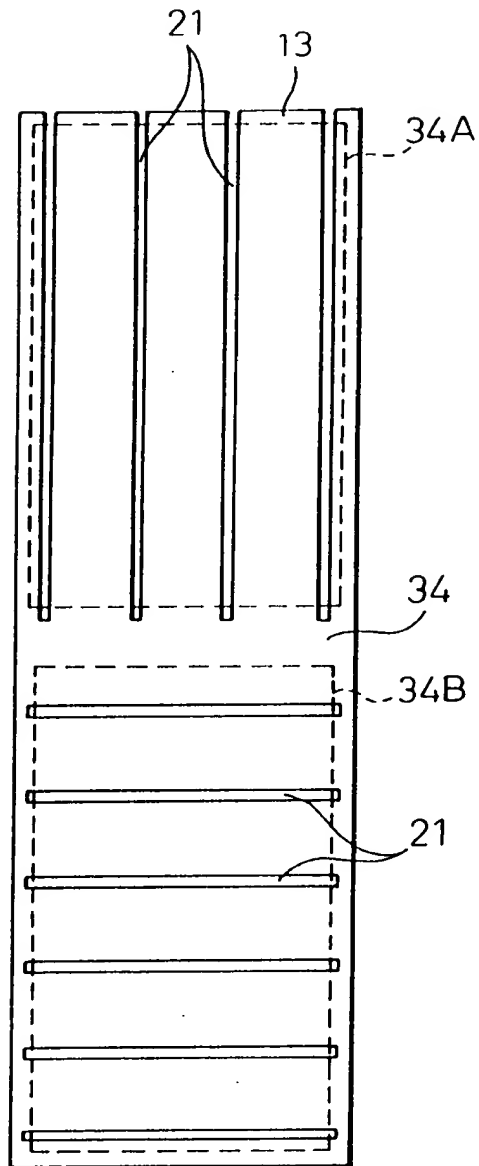


Fig. 39



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Fig.40

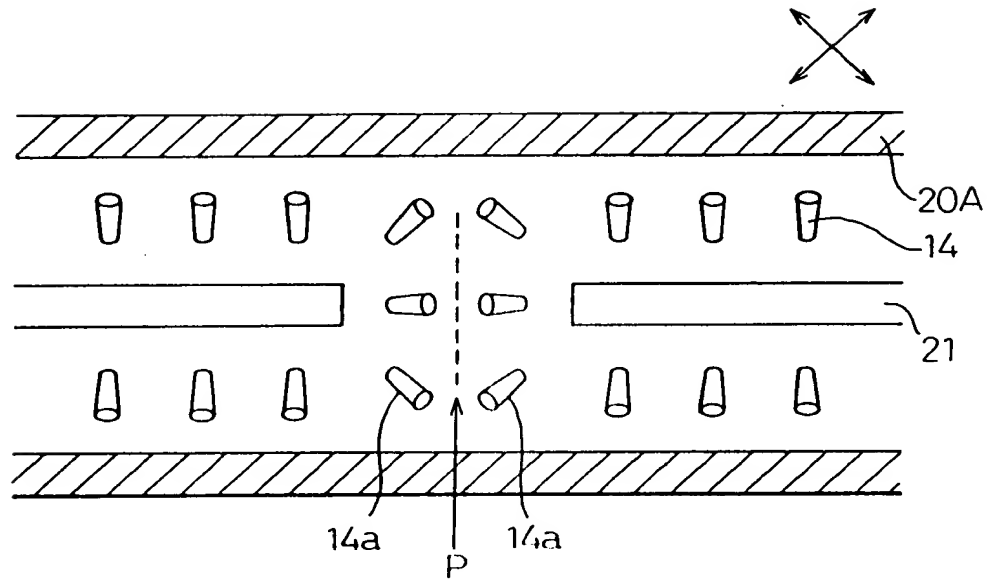
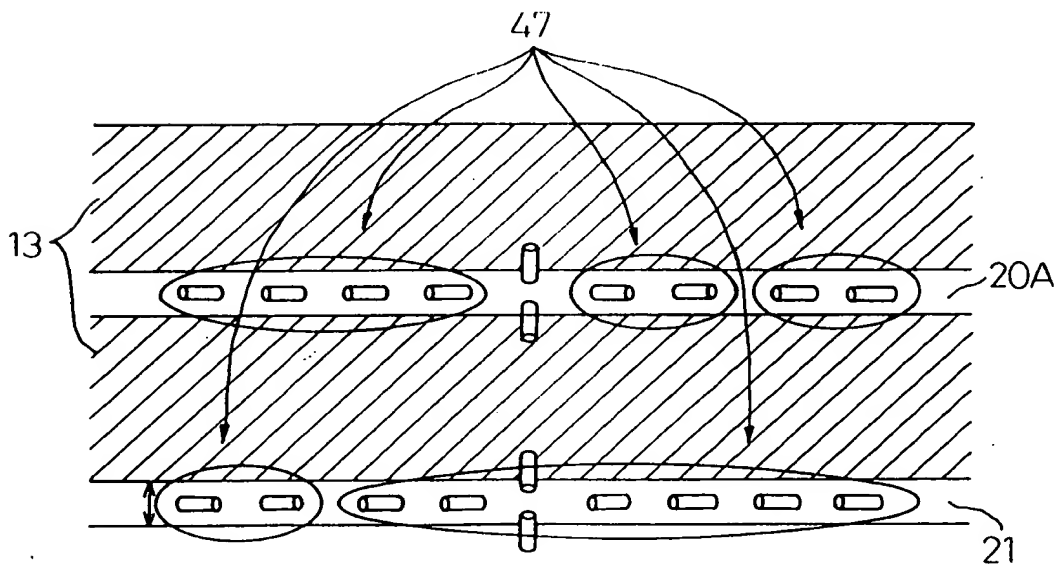
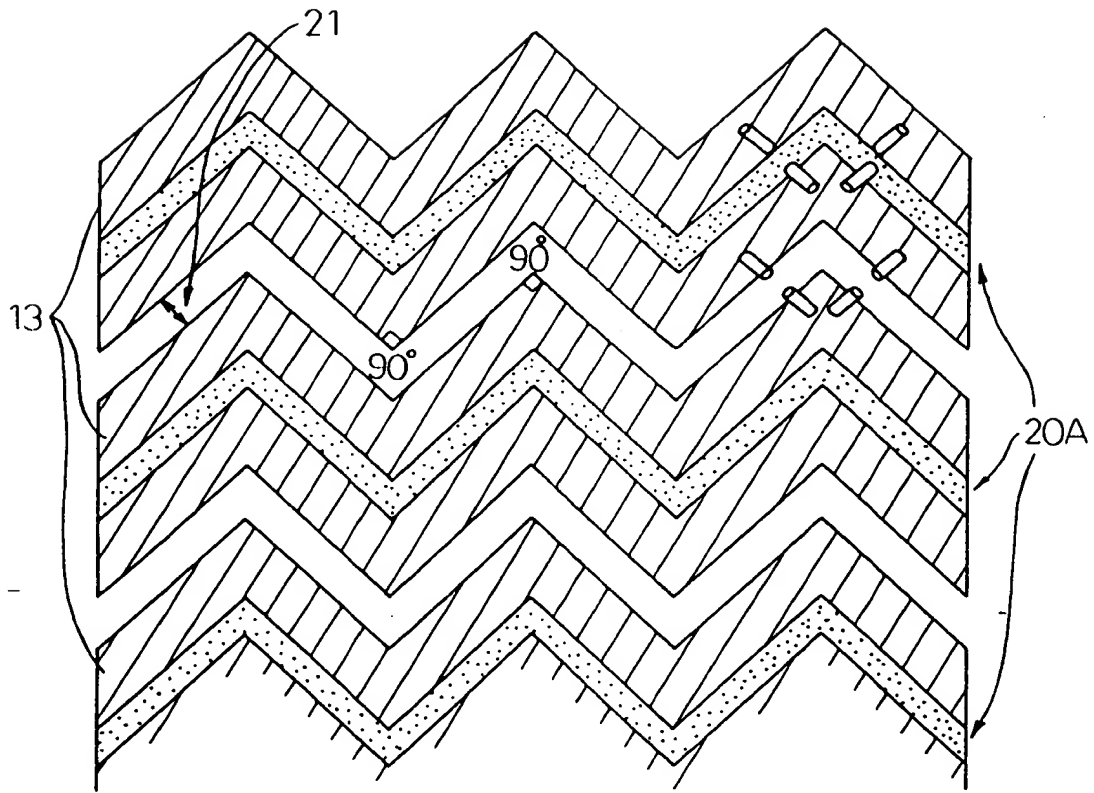


Fig.41



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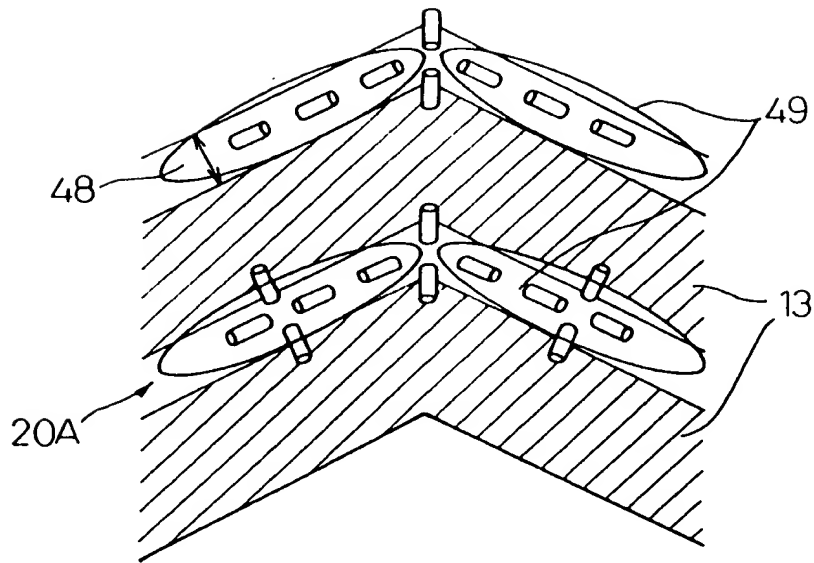
Fig. 42



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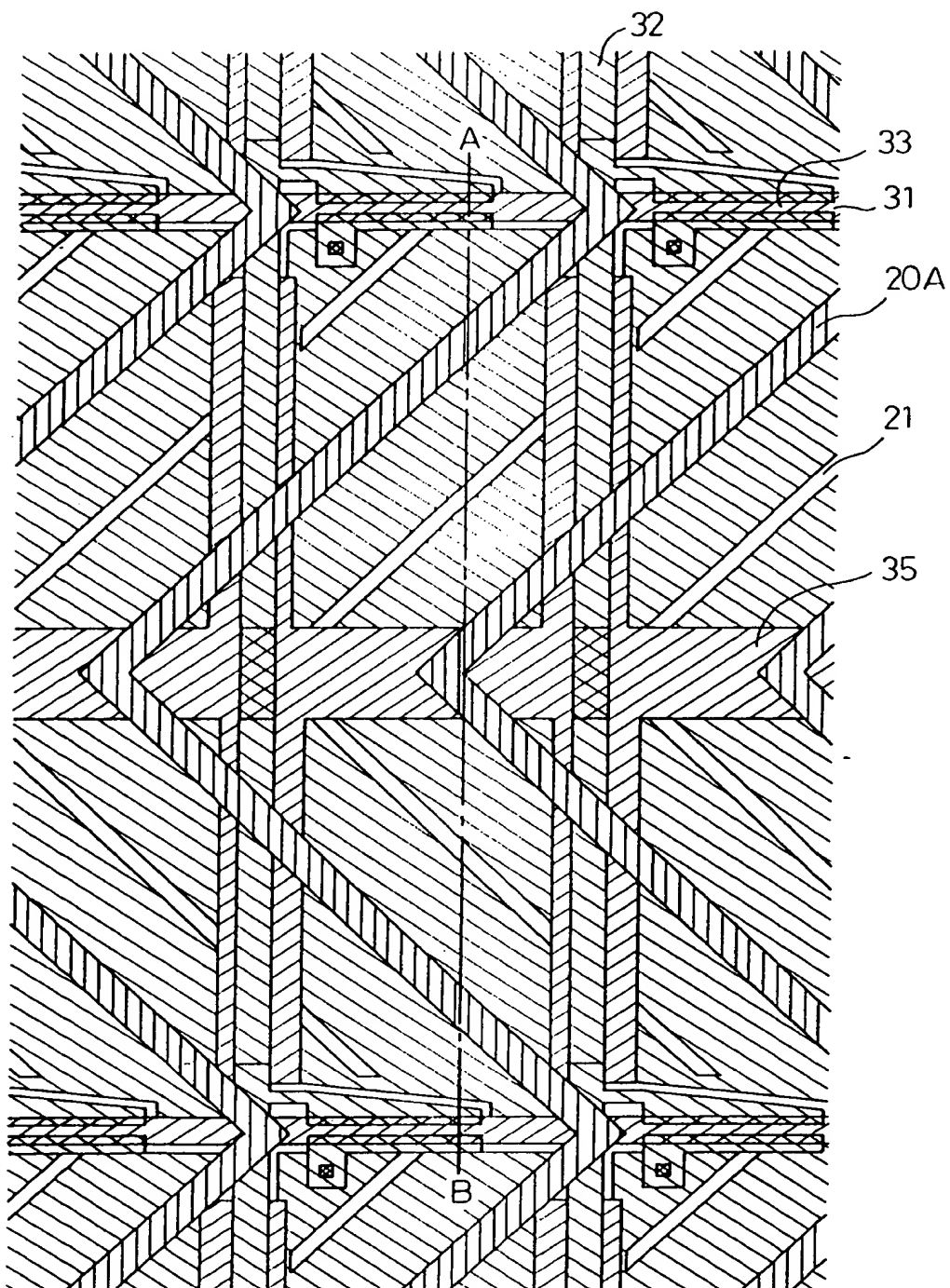
Fig. 43



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Fig. 44



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Fig. 45

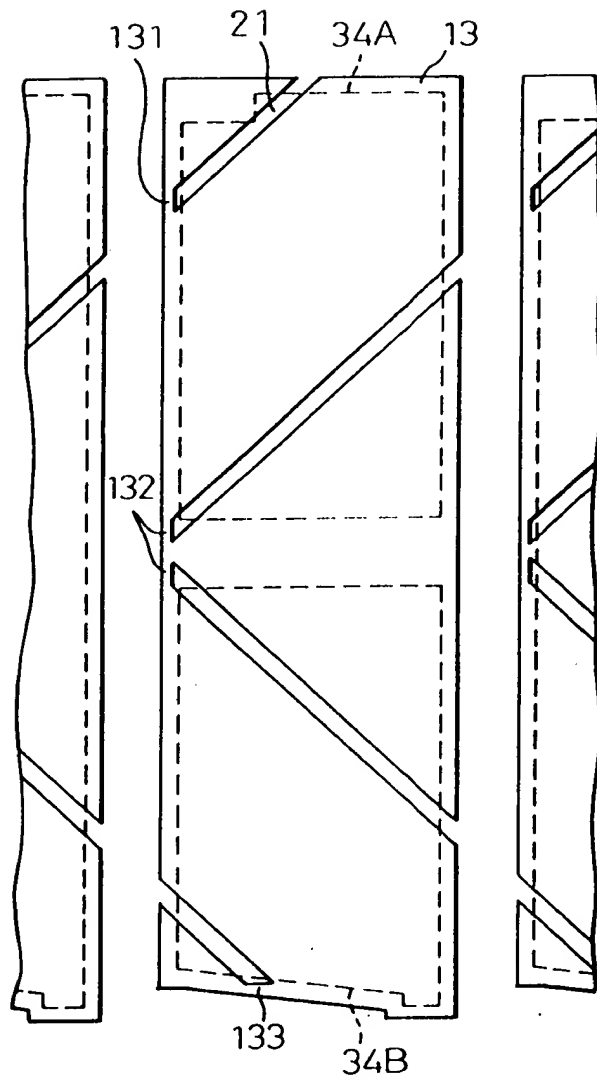
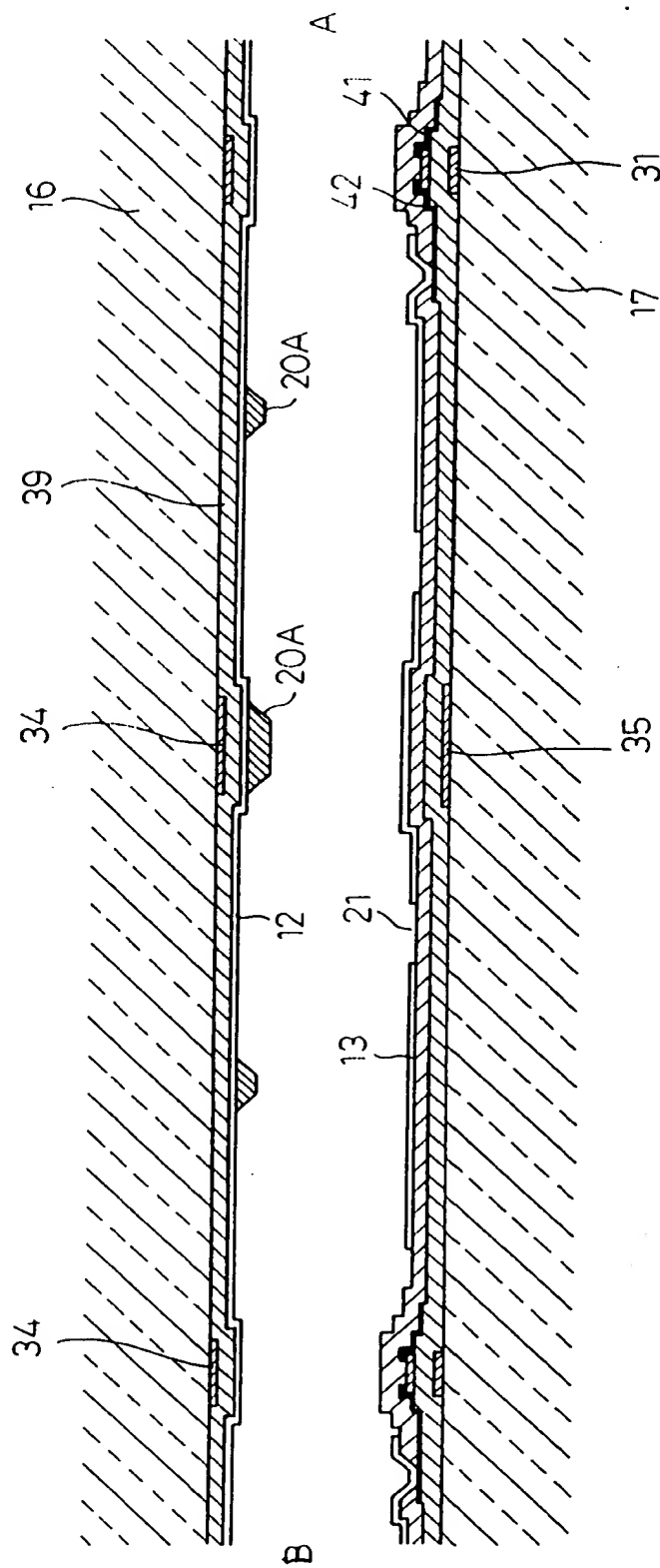
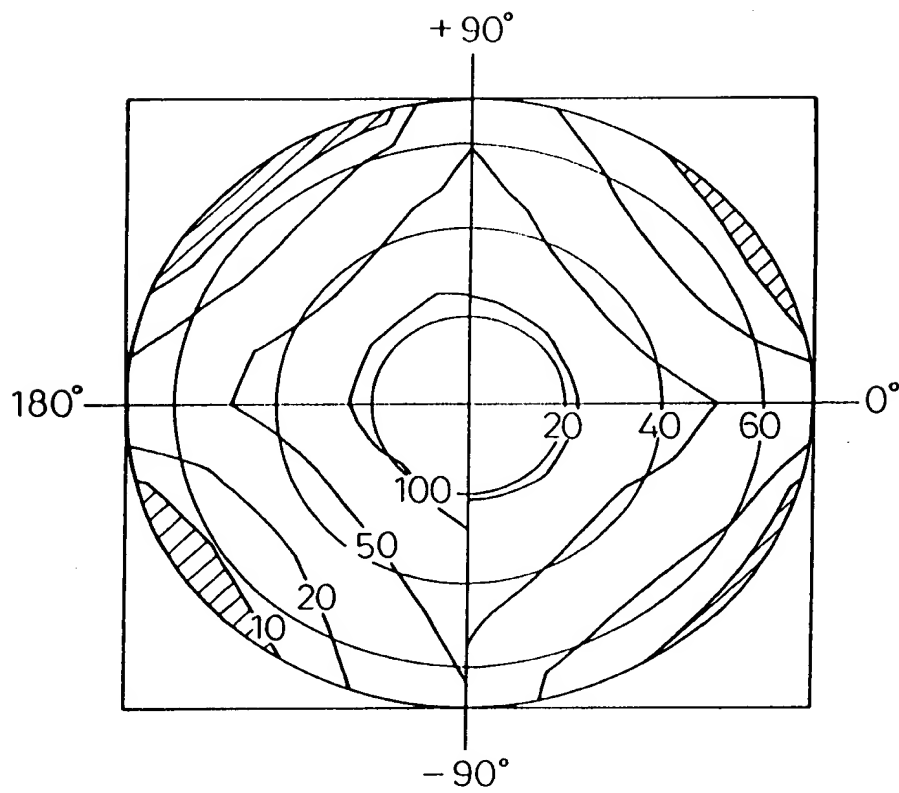


Fig. 46



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Fig.47



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Fig.48A

-90°

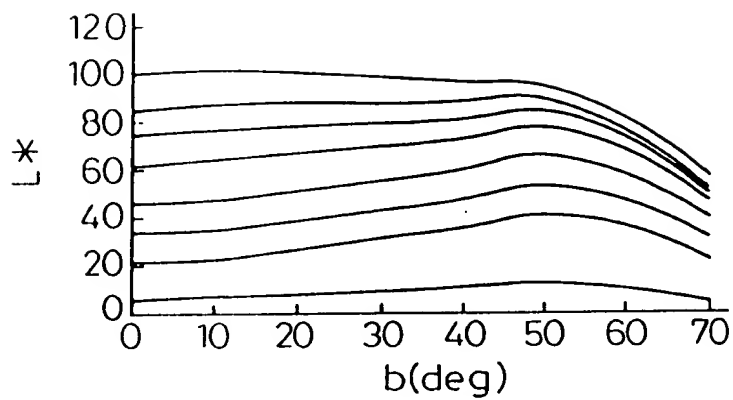


Fig.48B

-45°

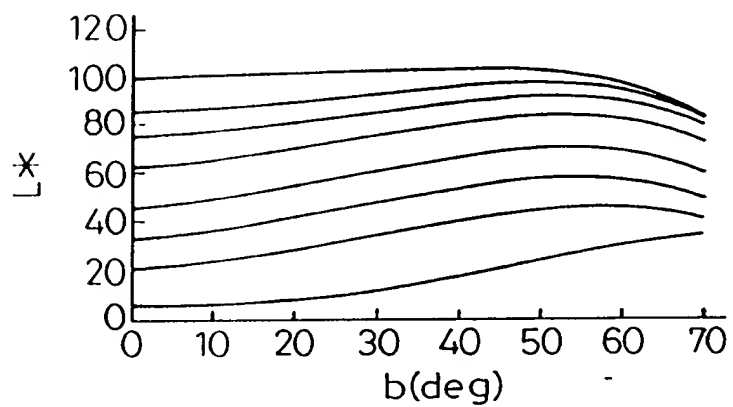


Fig.48C

0°

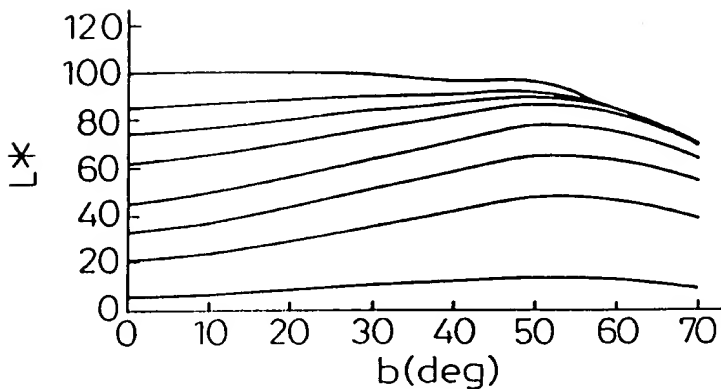


Fig.50A

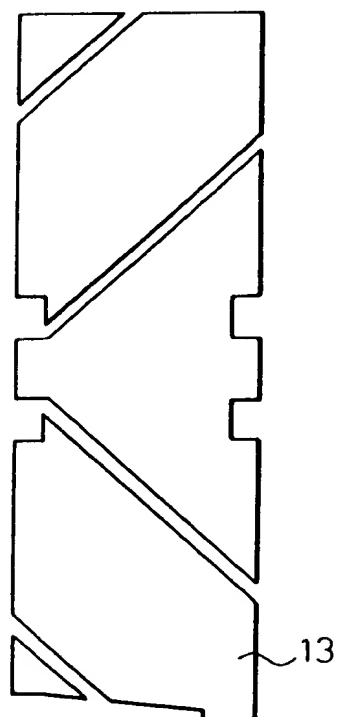
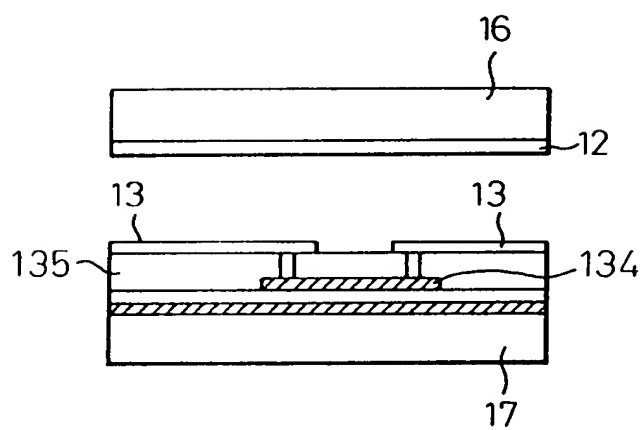
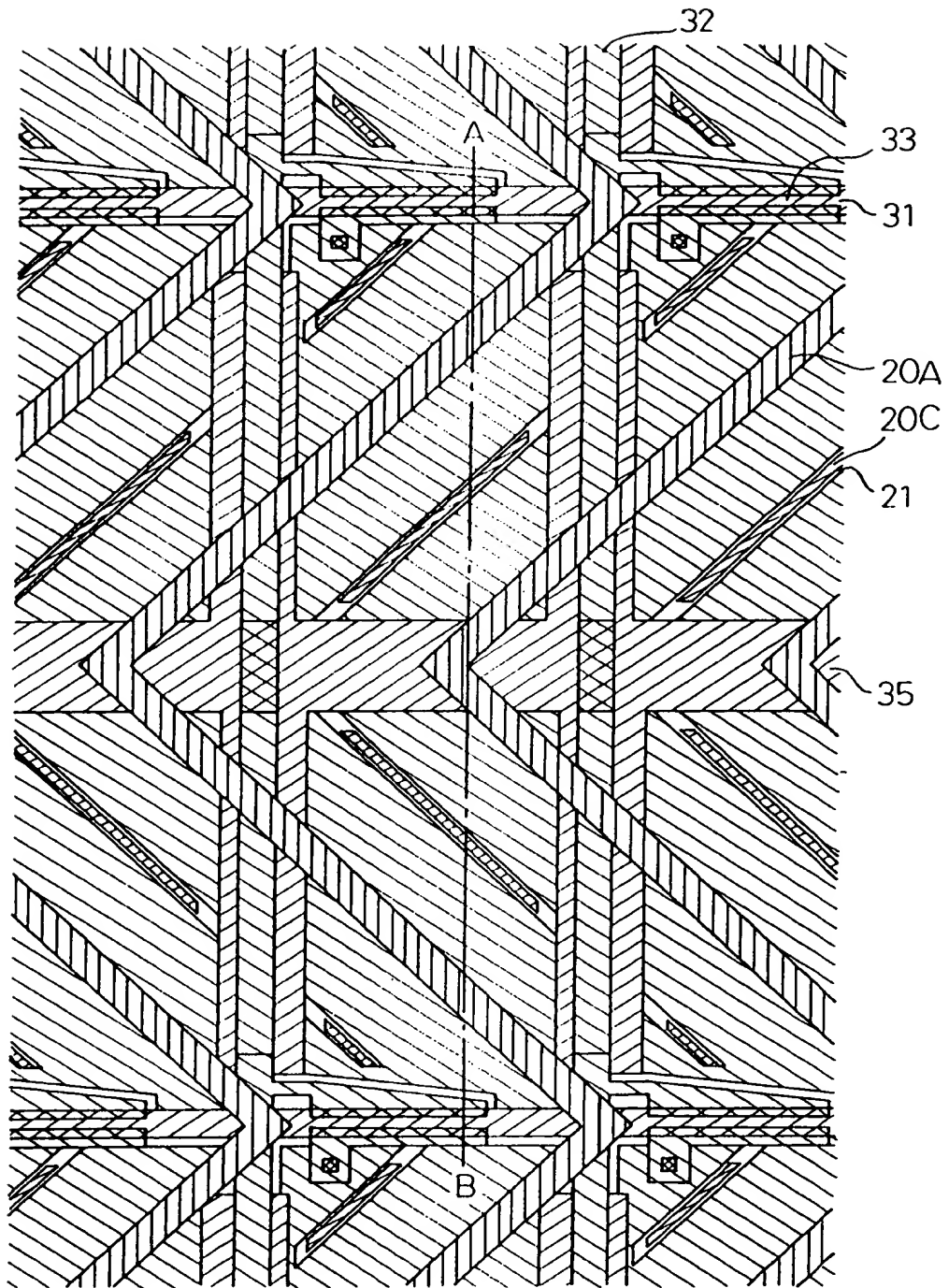


Fig.50B



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Fig. 51



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Fig.52

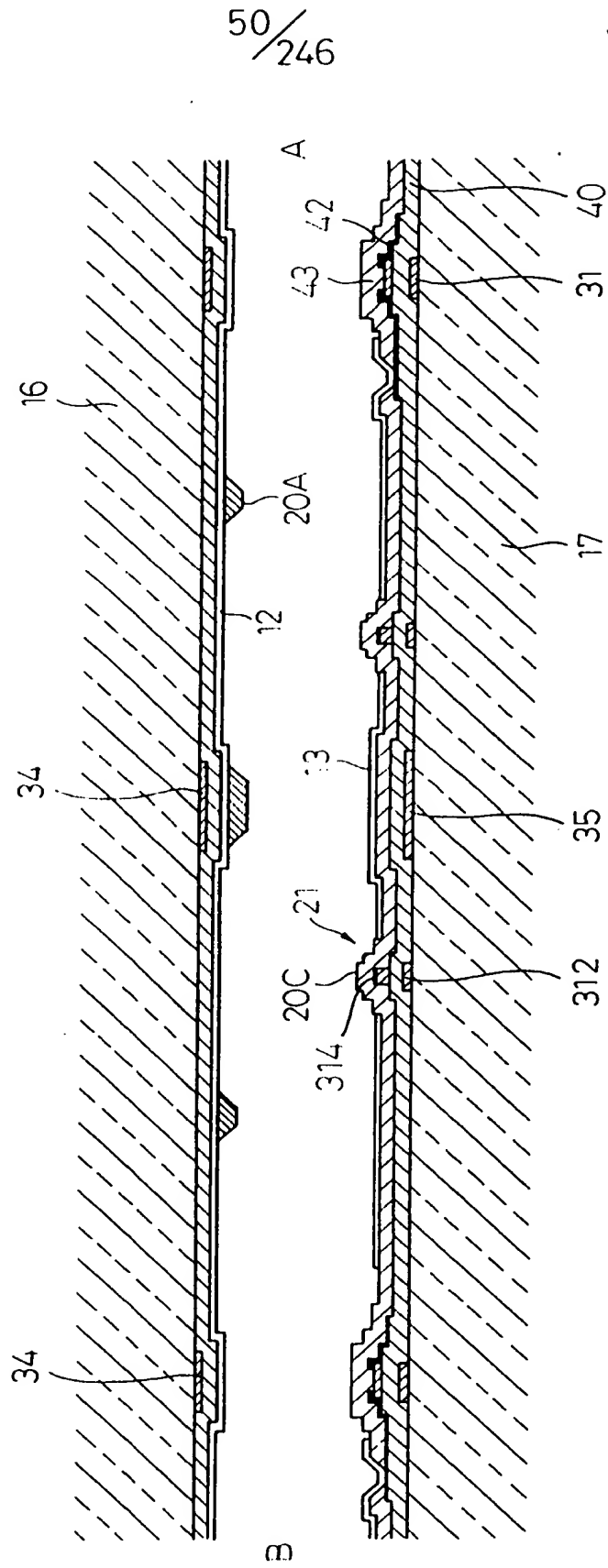


Fig.53A

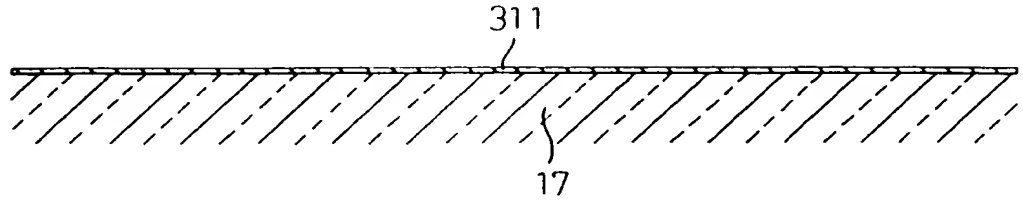


Fig.53B

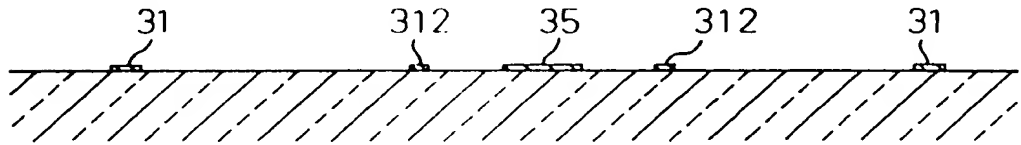


Fig.53C

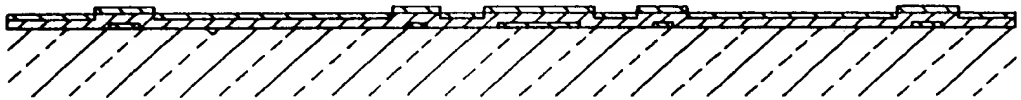


Fig.53D

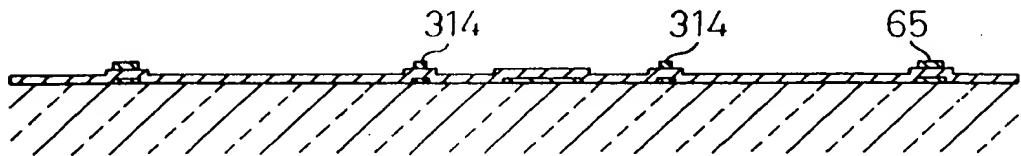


Fig.53E

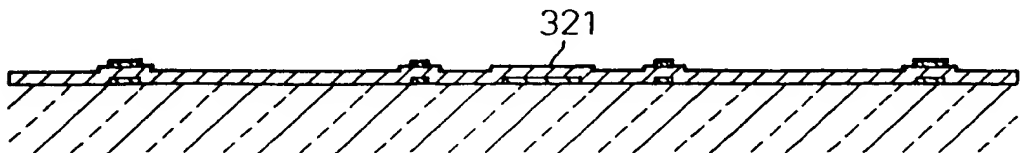


Fig. 53F

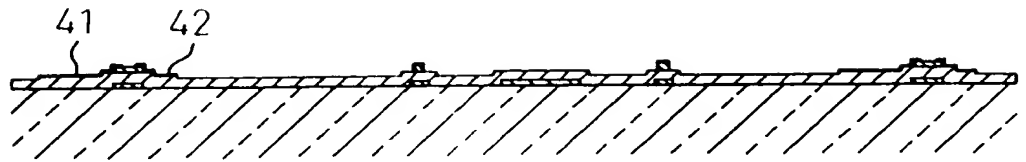


Fig. 53G

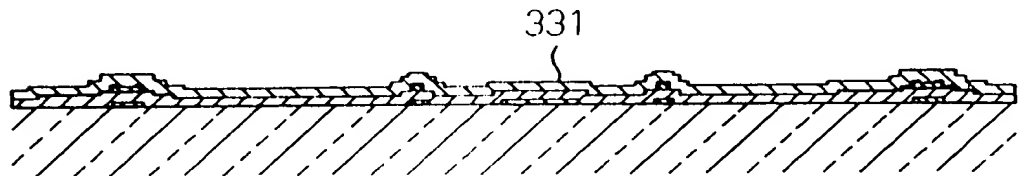


Fig. 53H

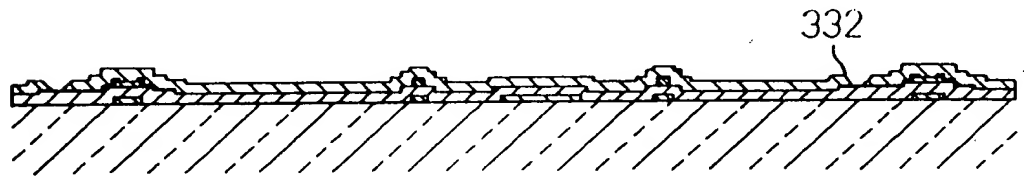


Fig. 53I

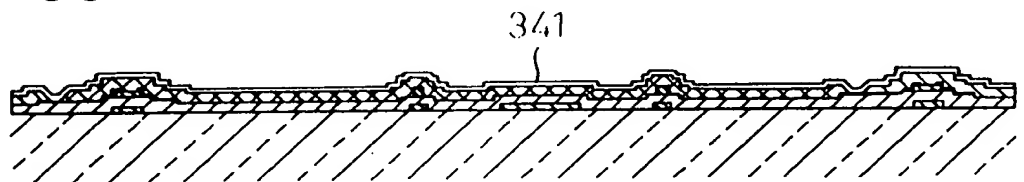


Fig. 53J

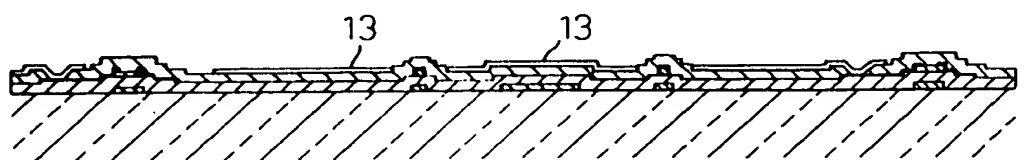
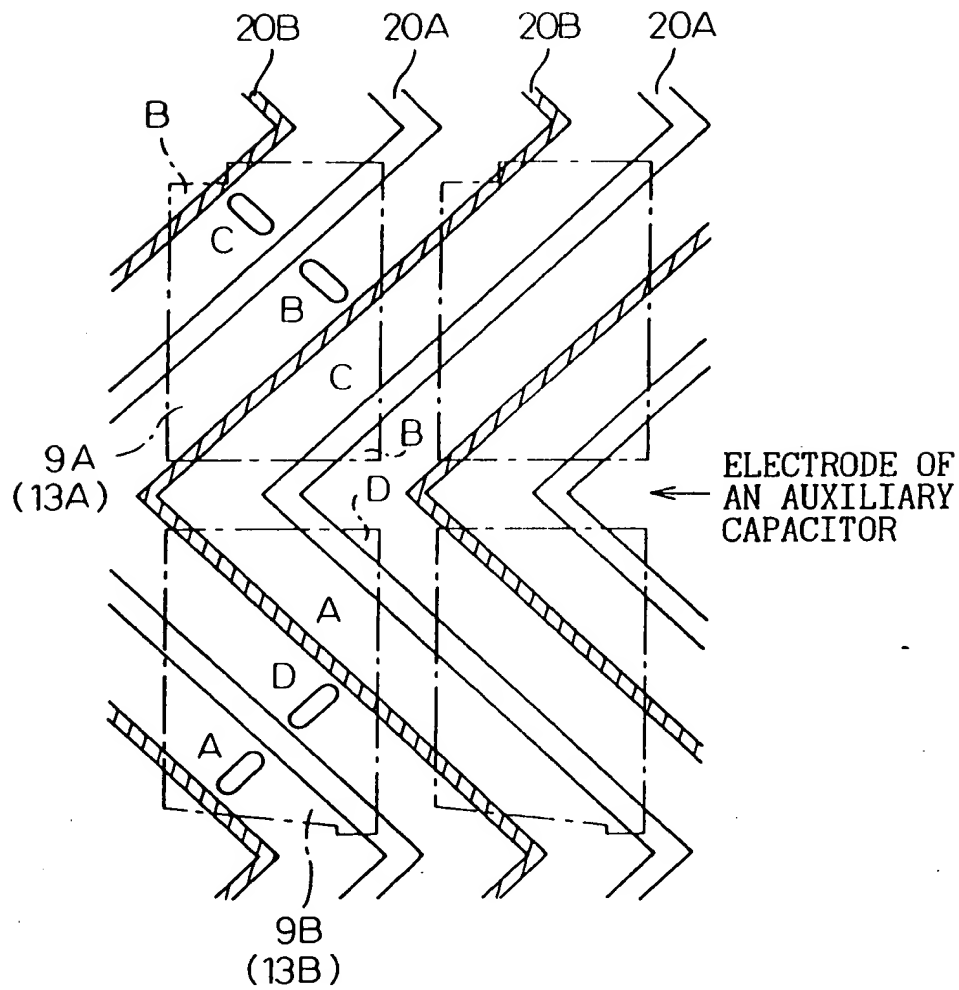
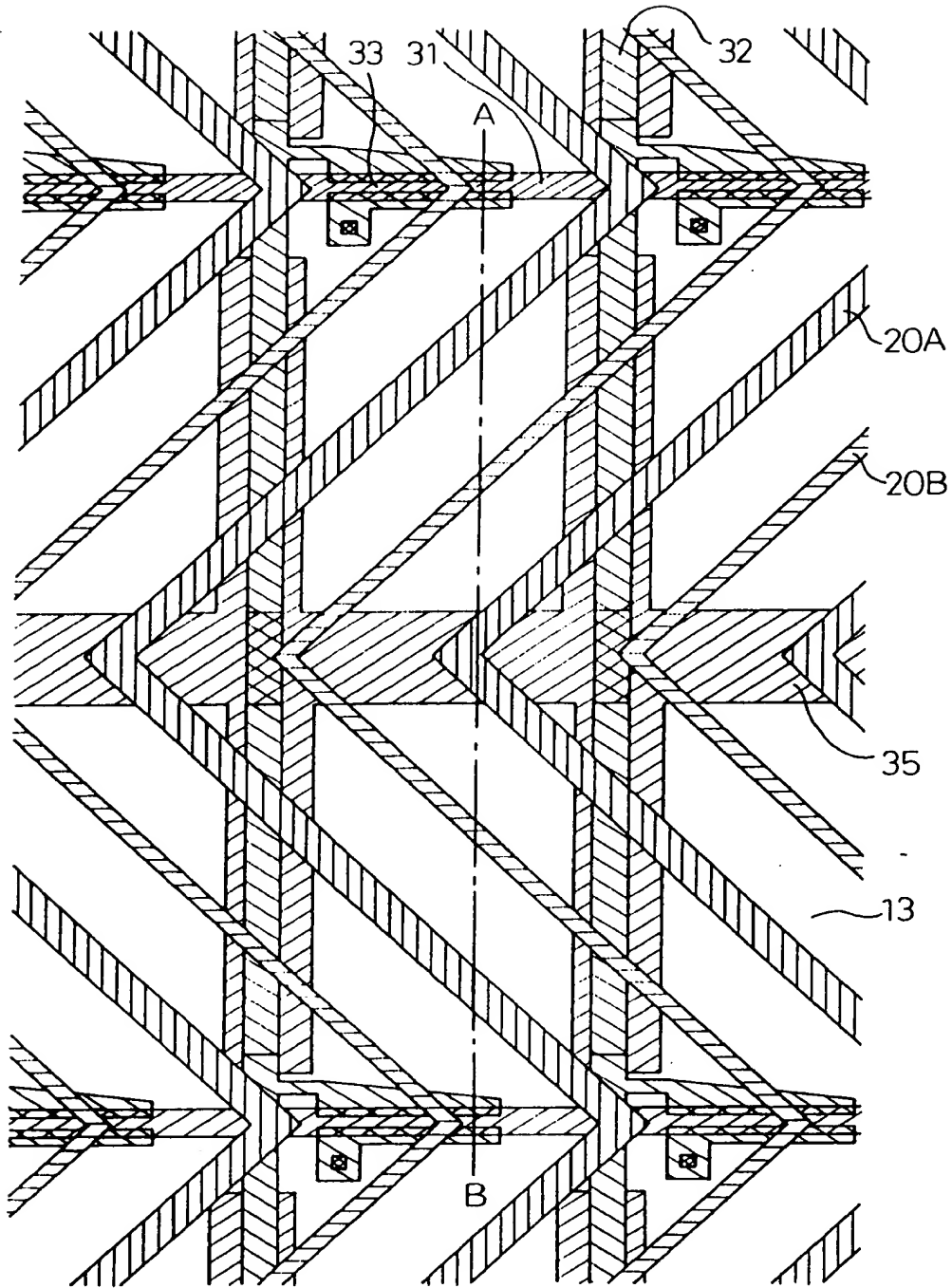


Fig. 54



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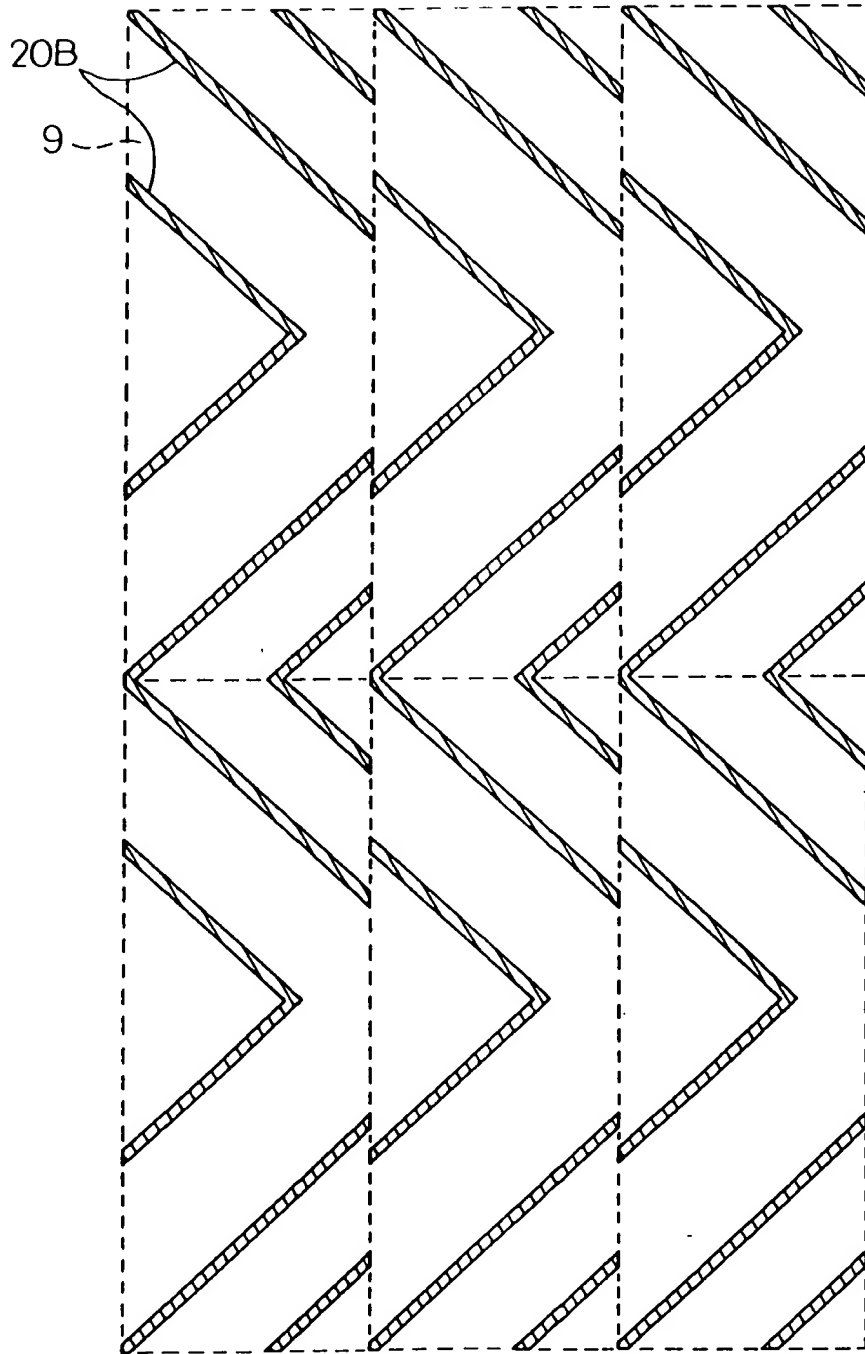
Fig. 55



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Fig. 56



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Fig. 57A

WHEN NO VOLTAGE IS APPLIED

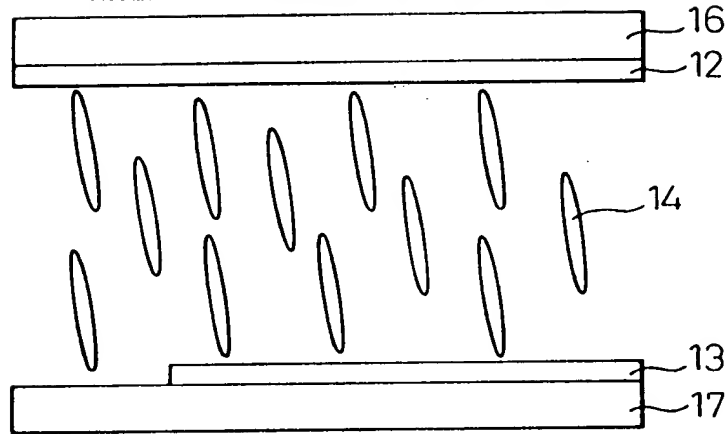


Fig. 57B

WHEN A VOLTAGE IS APPLIED

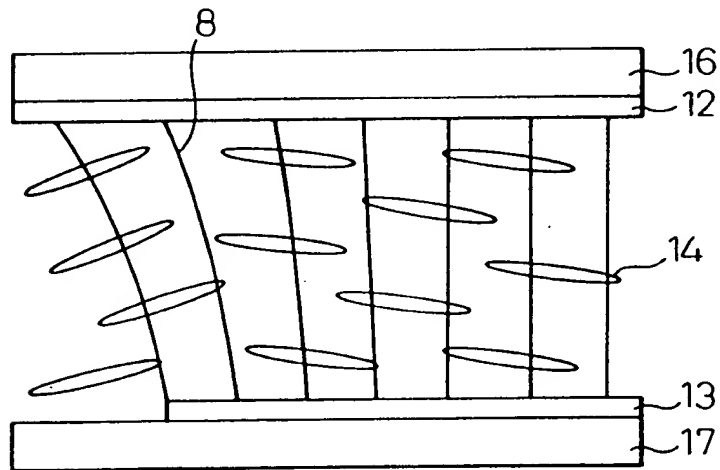


Fig. 58

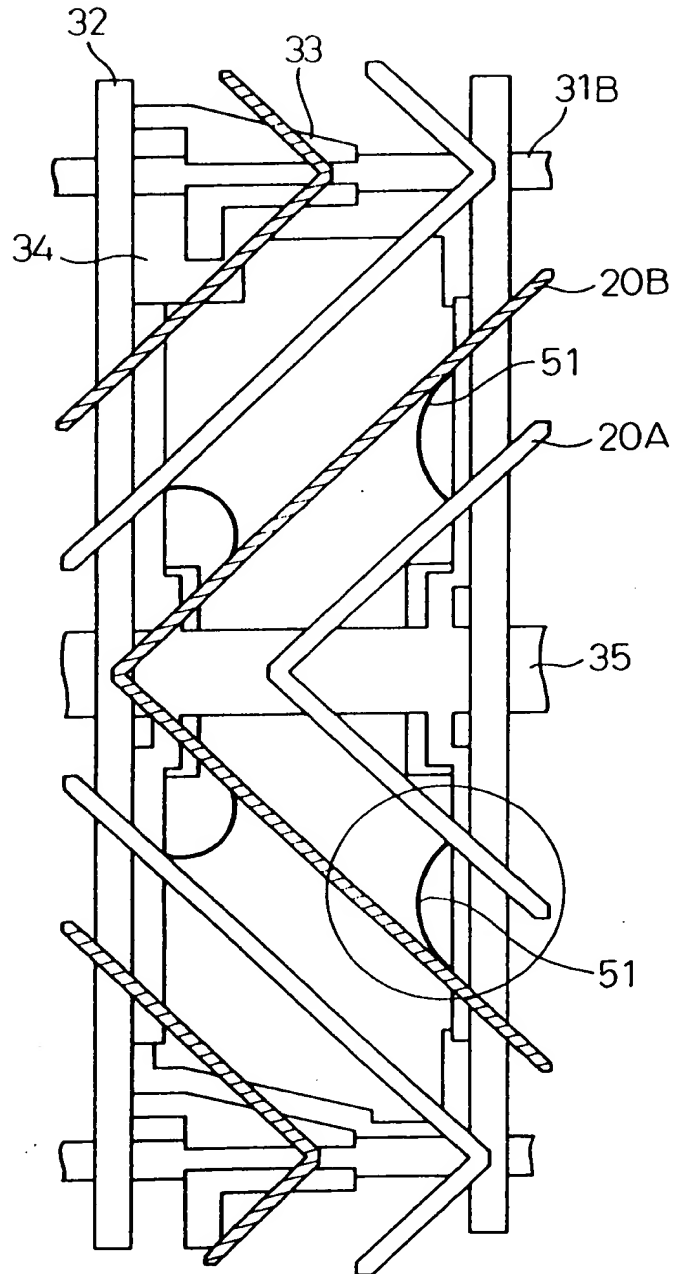


Fig. 59

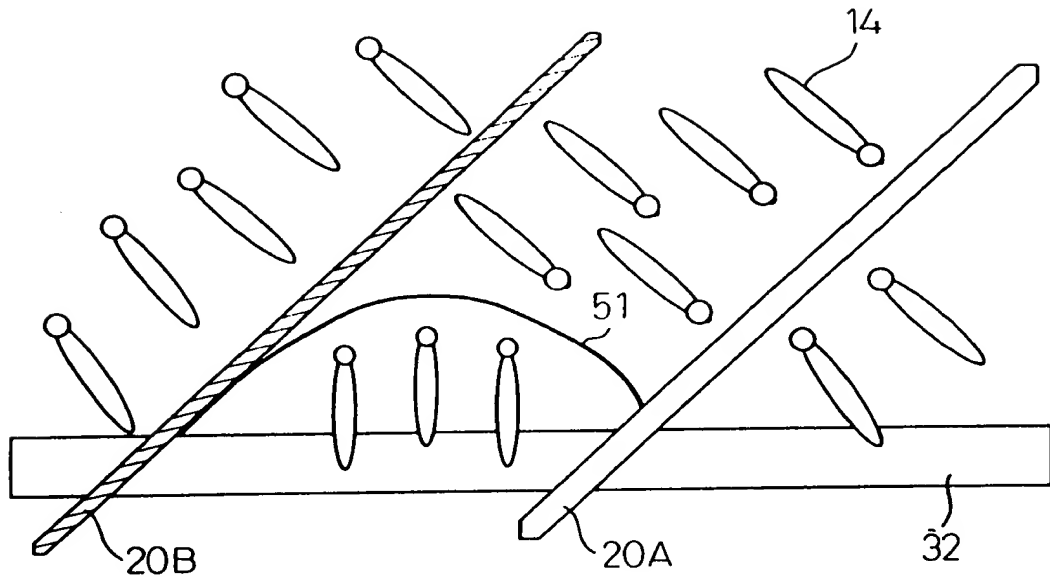
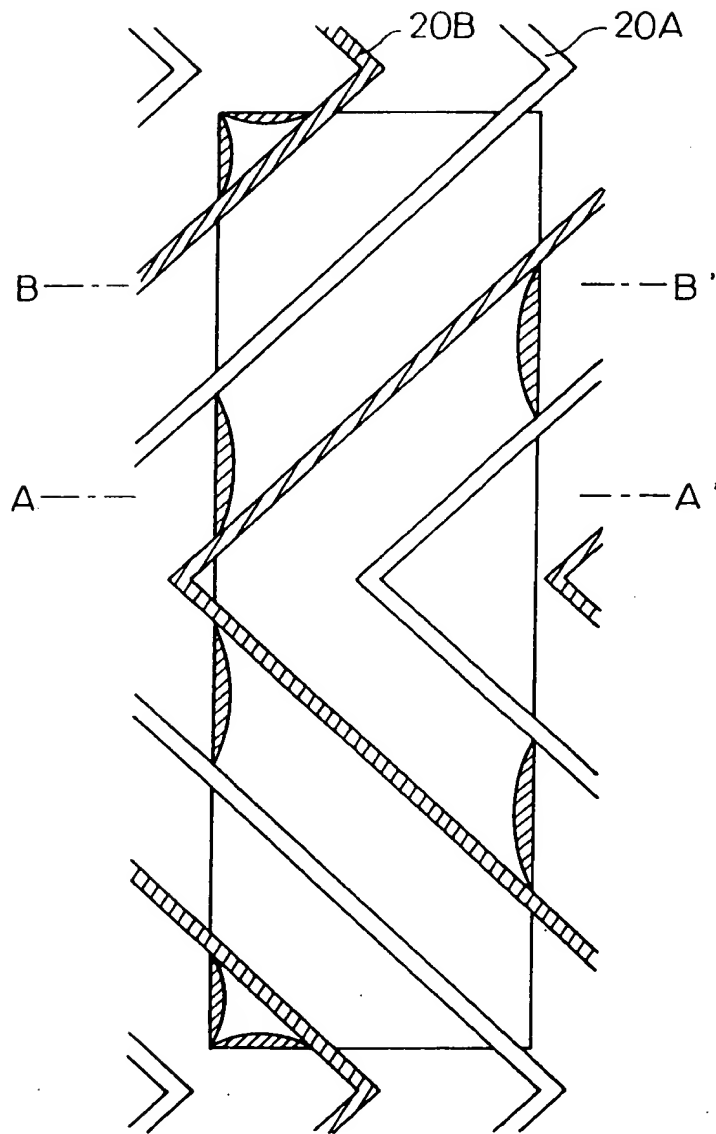


Fig. 60



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Fig. 61A

A - A'

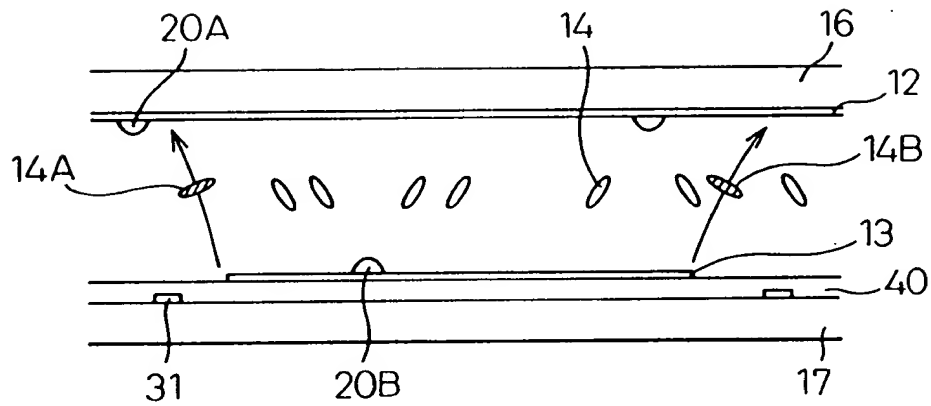
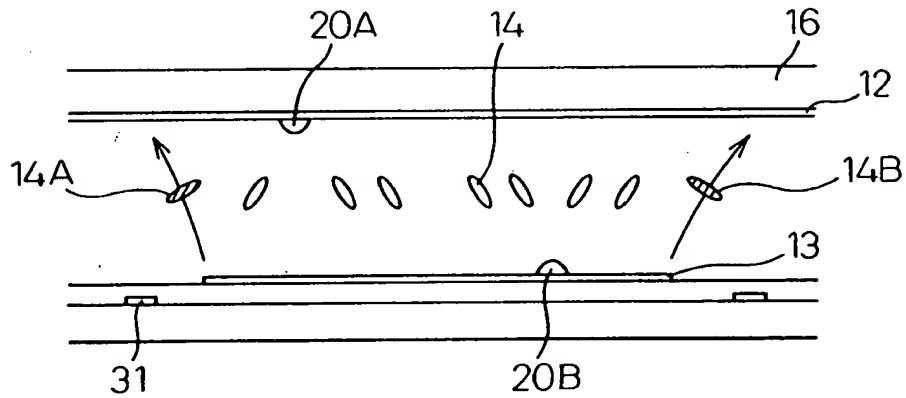


Fig. 61B

B - B'



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Fig.62A

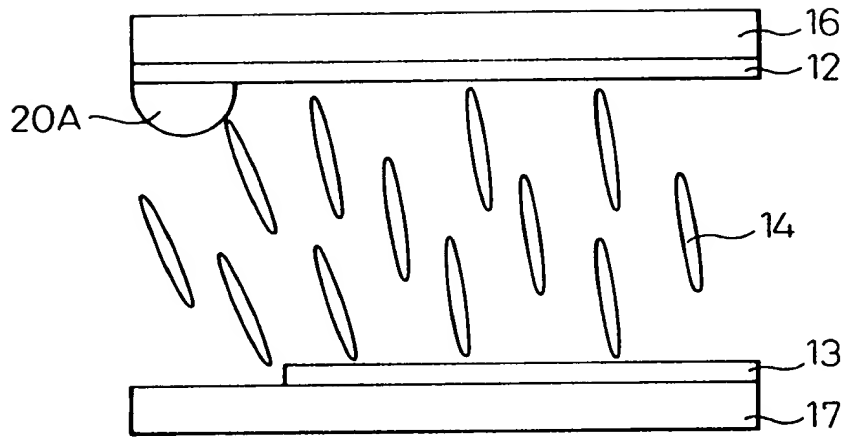


Fig.62B

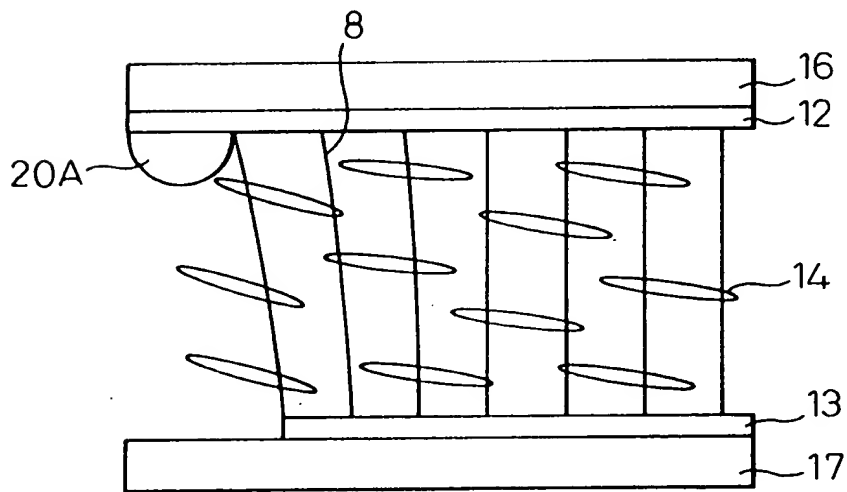


Fig. 63

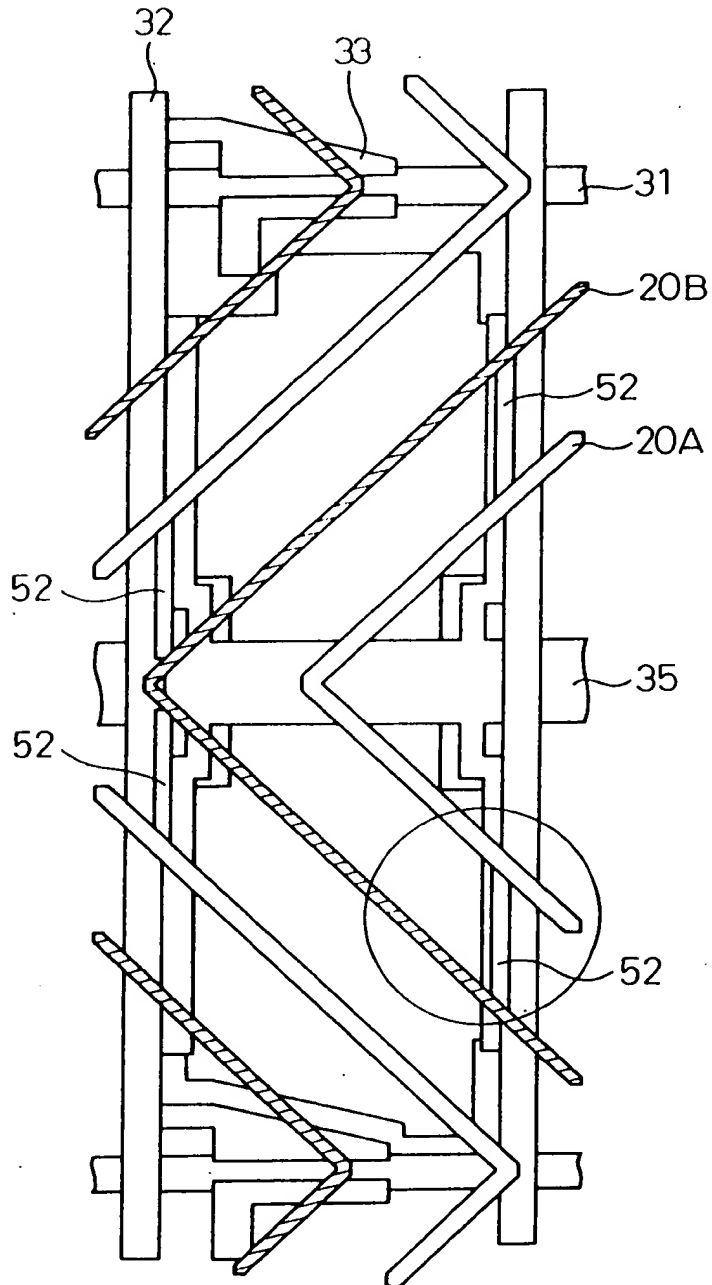
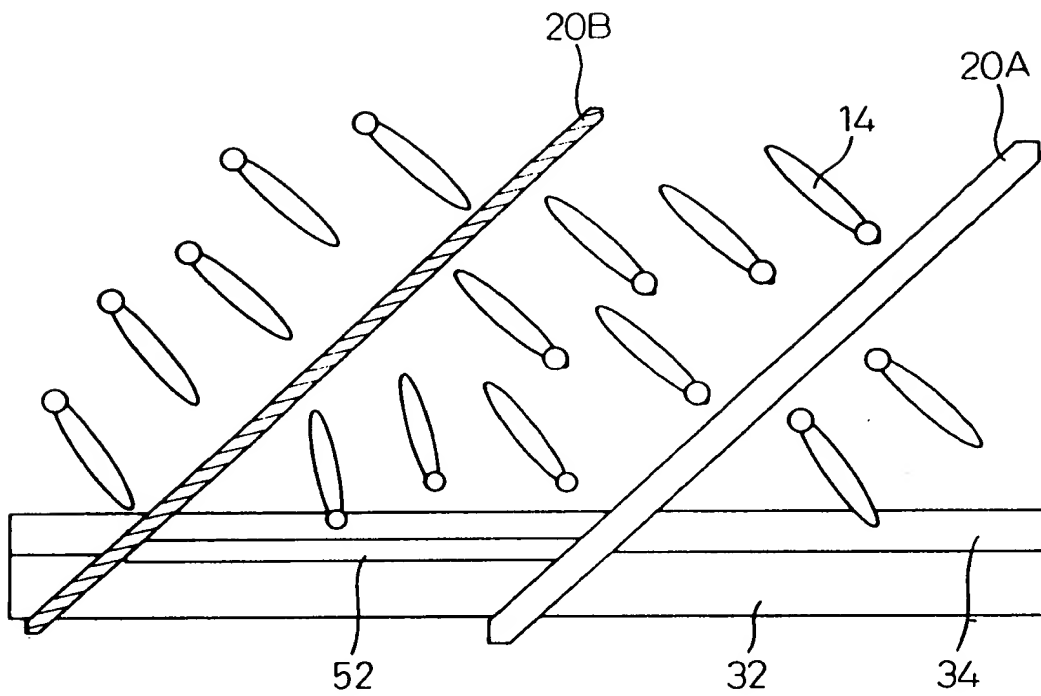


Fig.64



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Fig. 65A

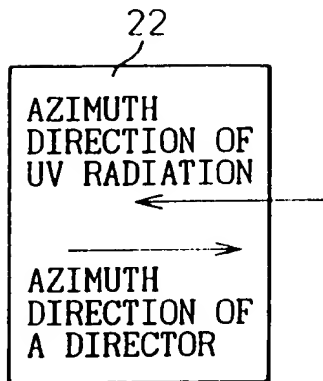


Fig. 65B

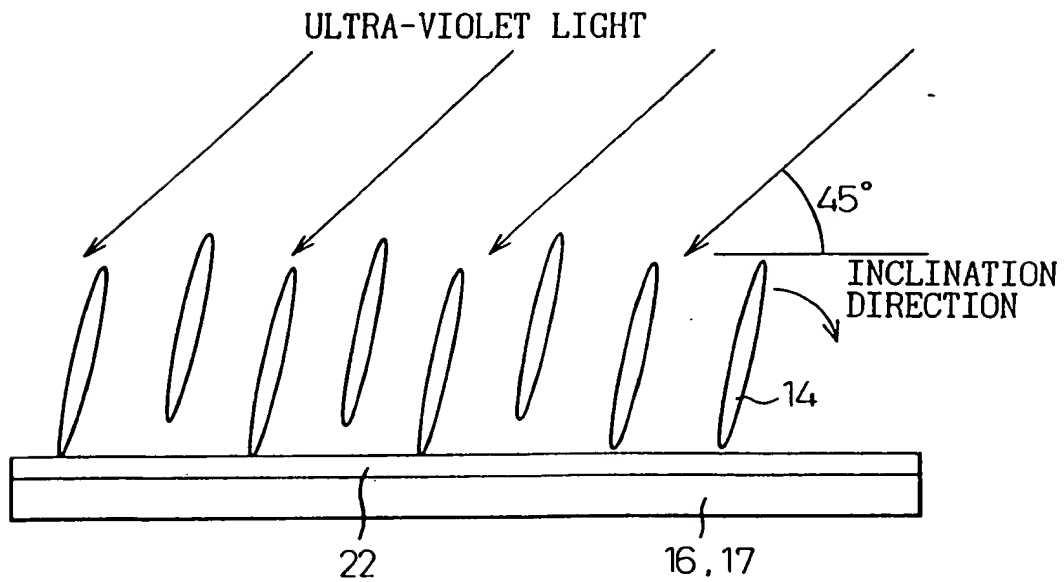


Fig. 66

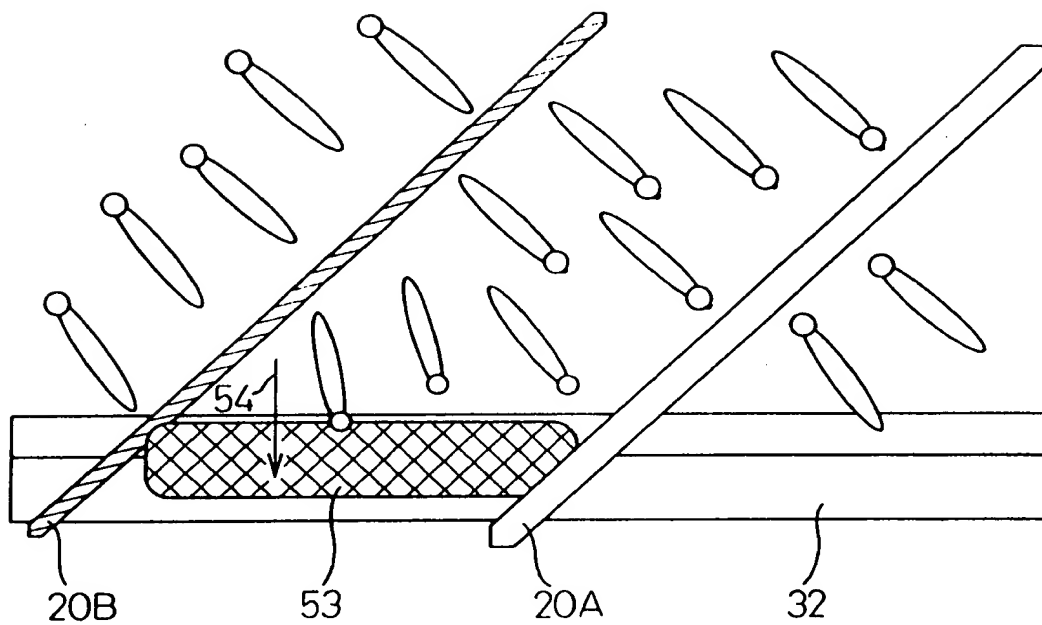


Fig. 67A

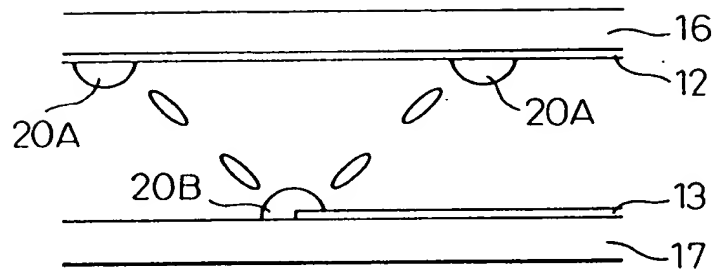


Fig. 67B

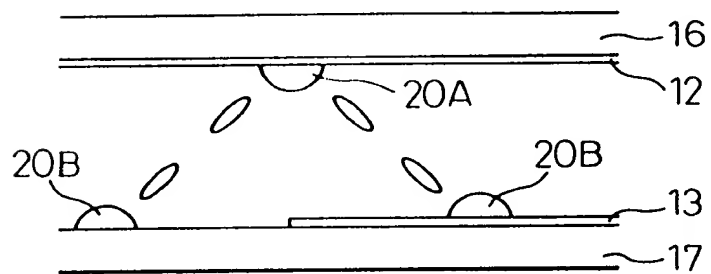


Fig. 67C

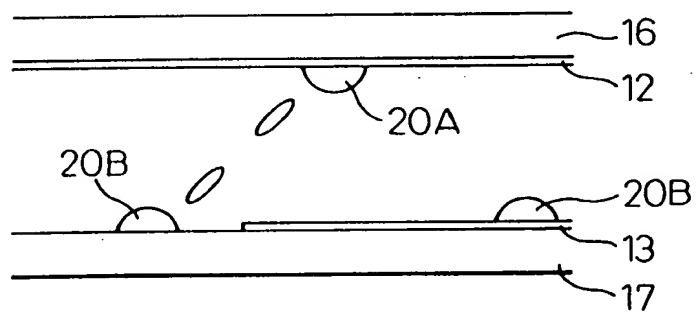
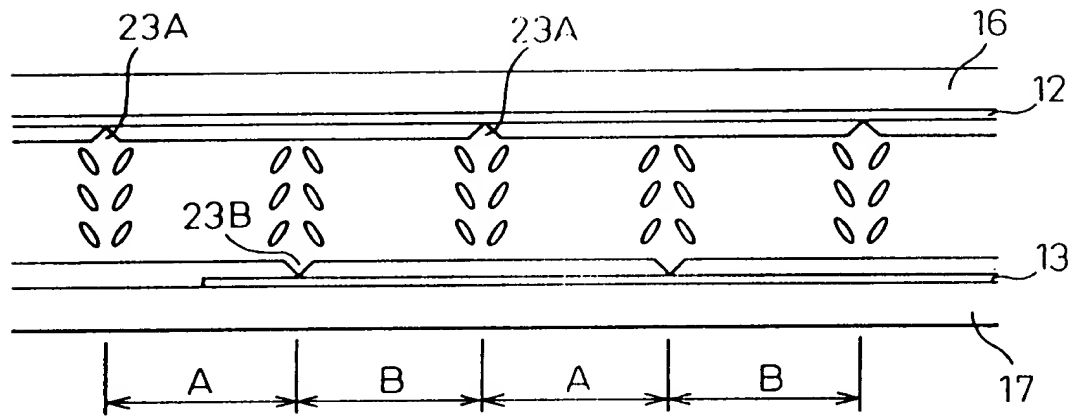


Fig. 68



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Fig. 69A

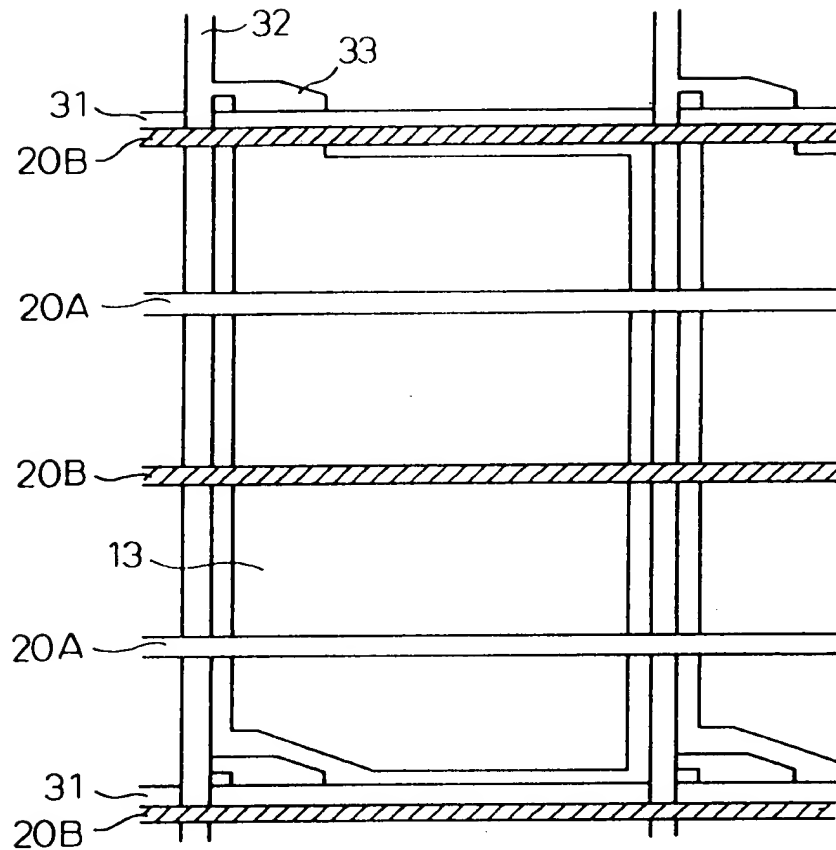


Fig. 69B

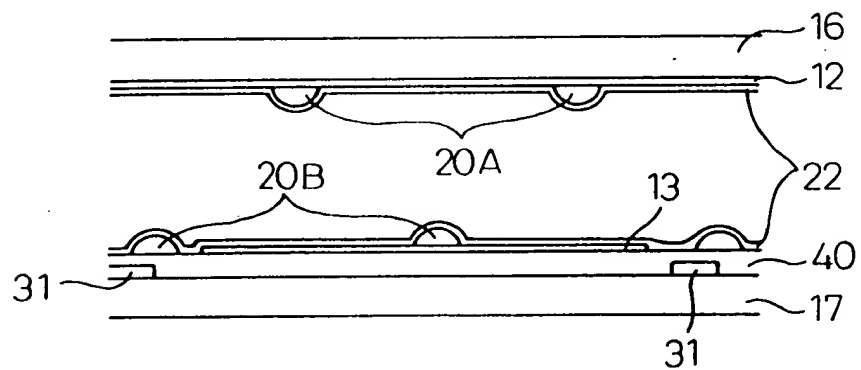


Fig.70A

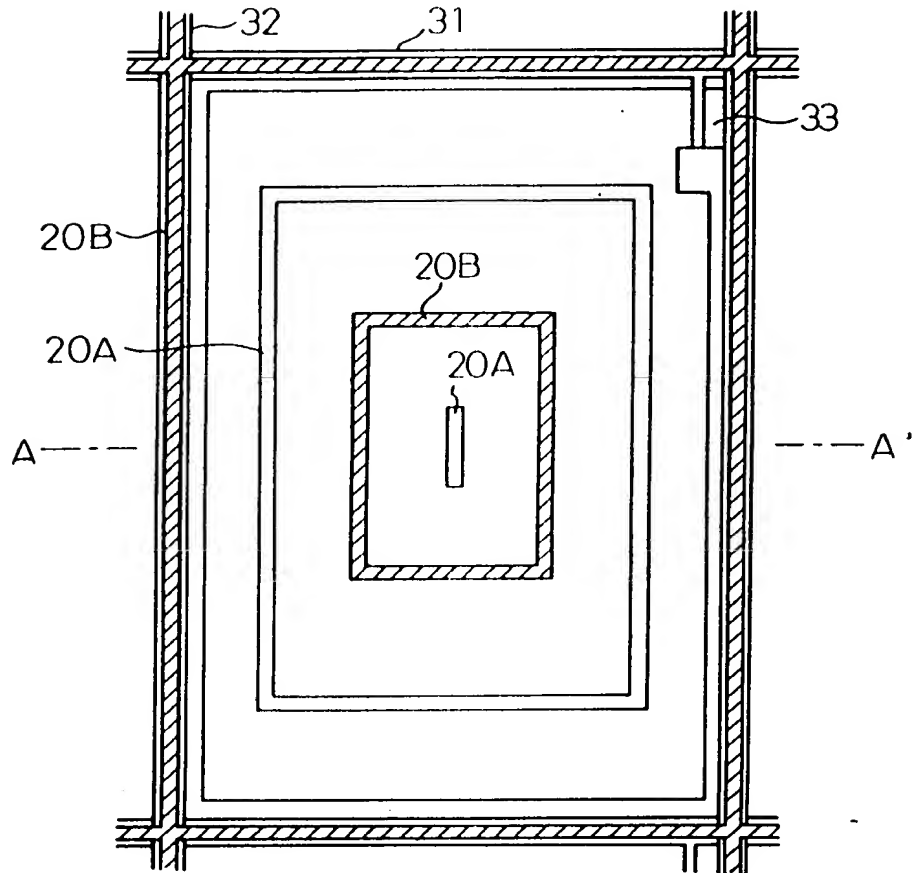
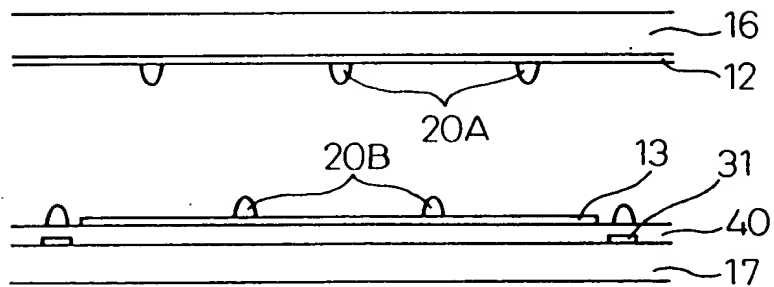
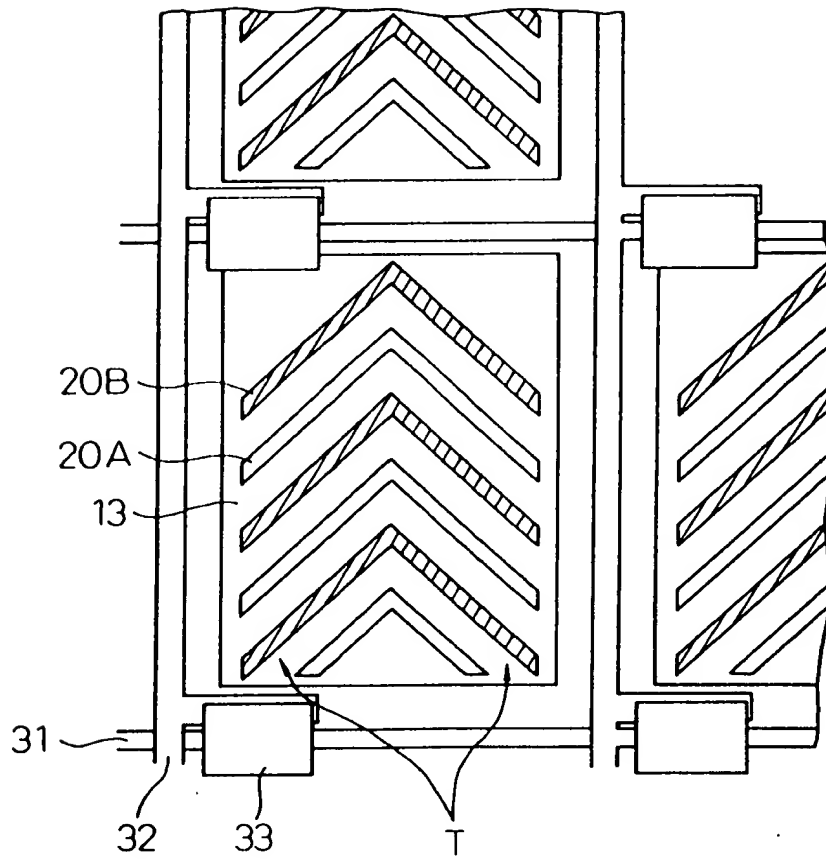


Fig.70B



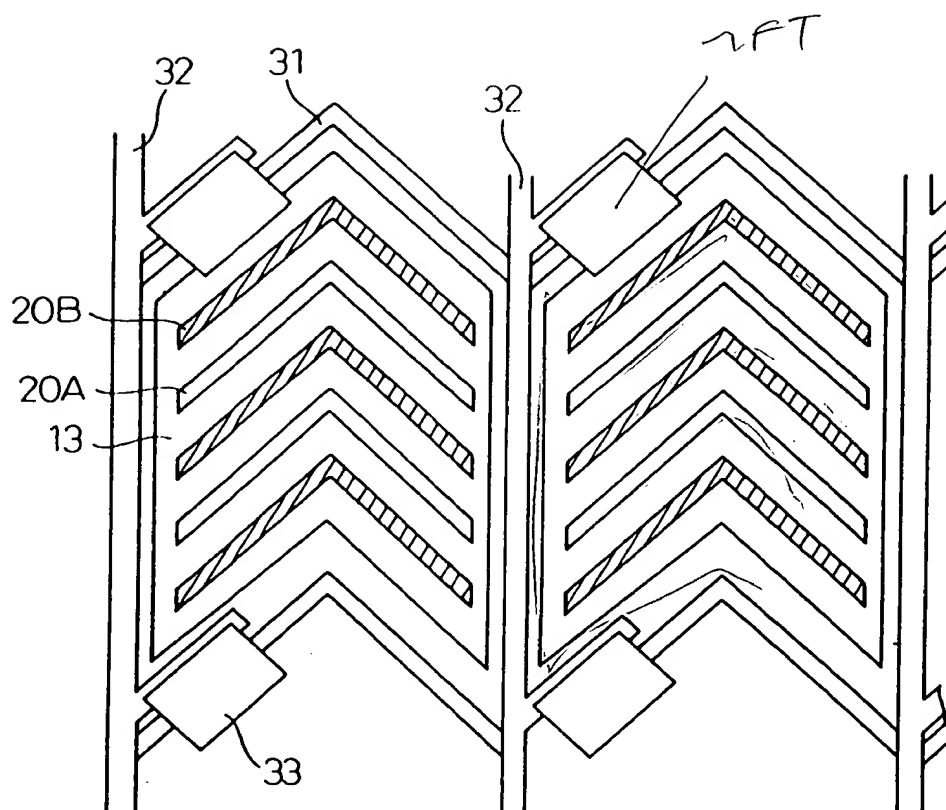
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Fig. 71



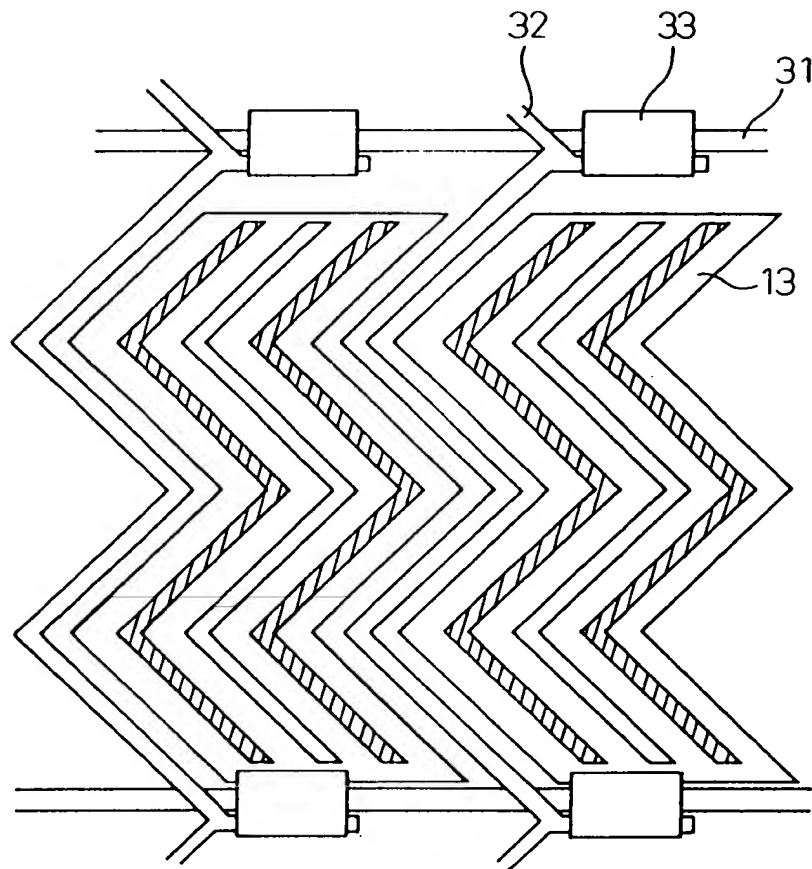
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Fig.72



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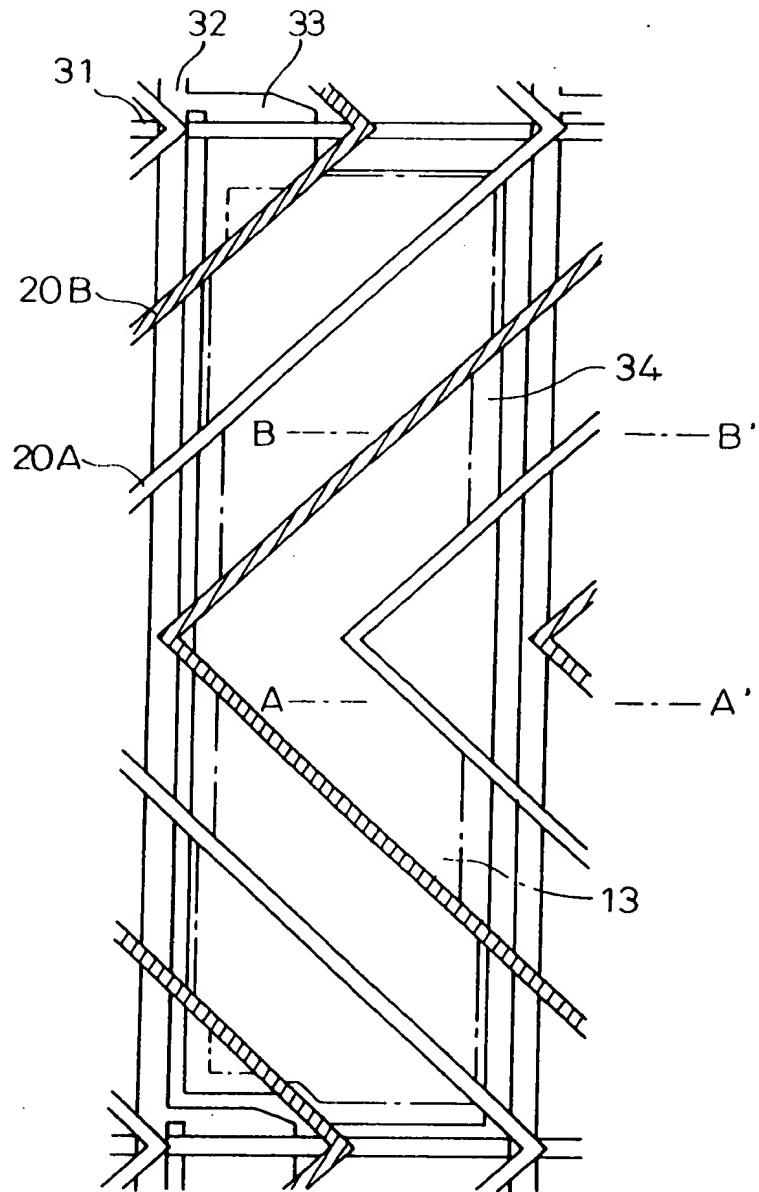
Fig. 74



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Fig. 75



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Fig.76A

A-A'

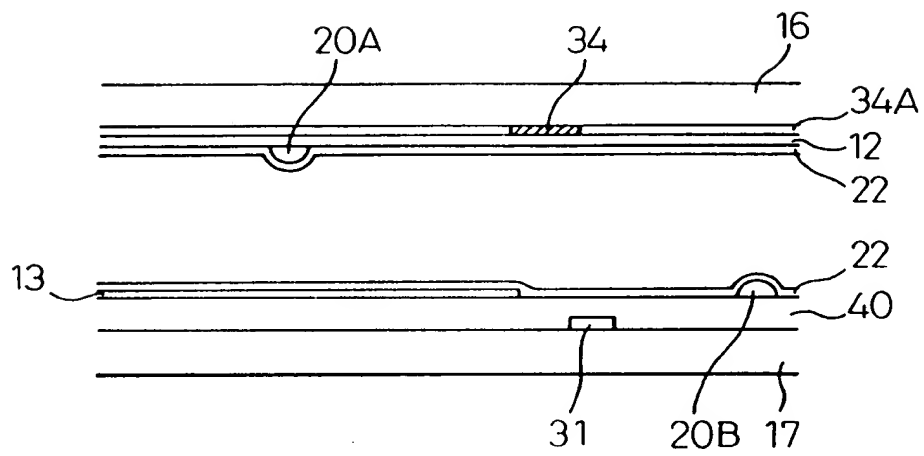


Fig.76B

B-B'

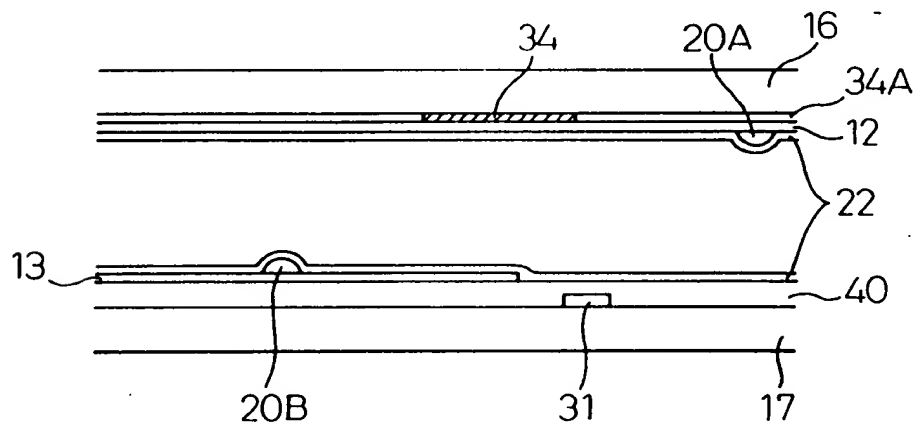


Fig. 77B

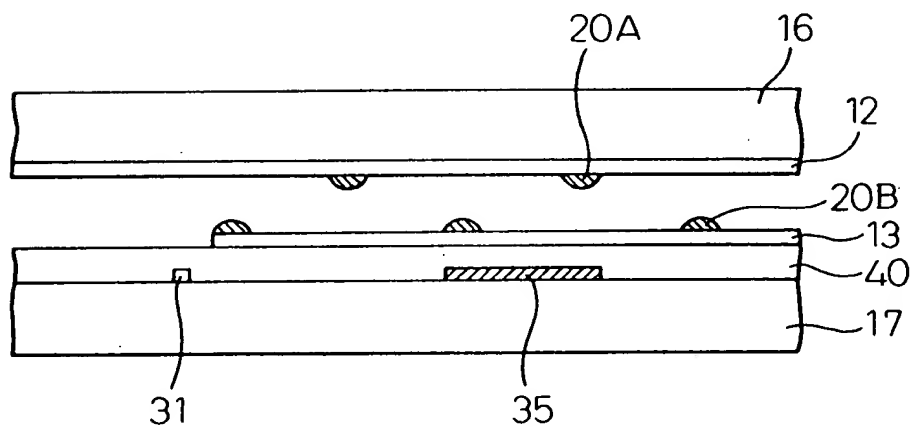


Fig.78A

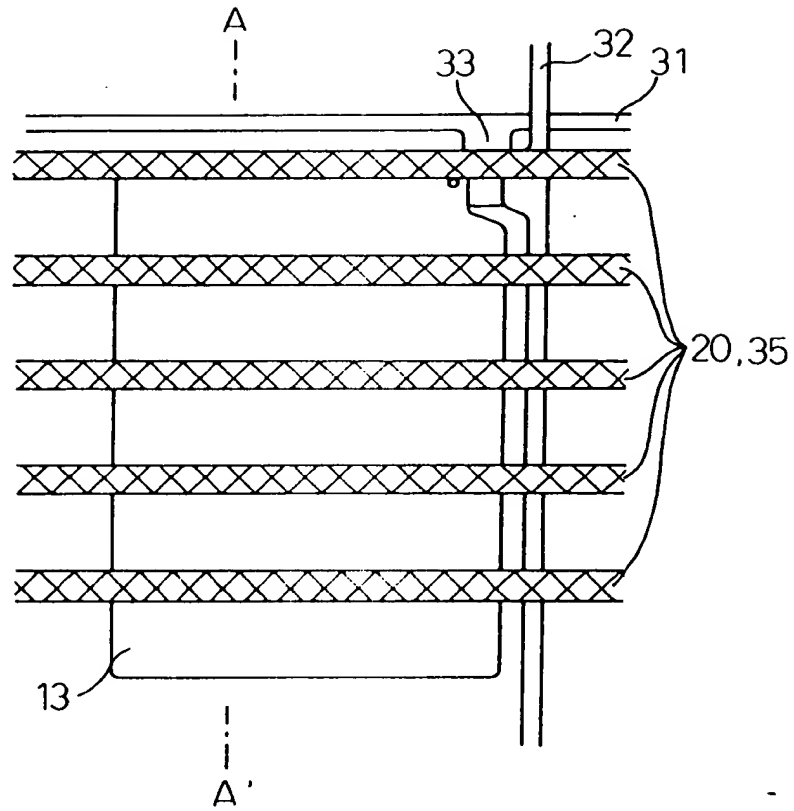
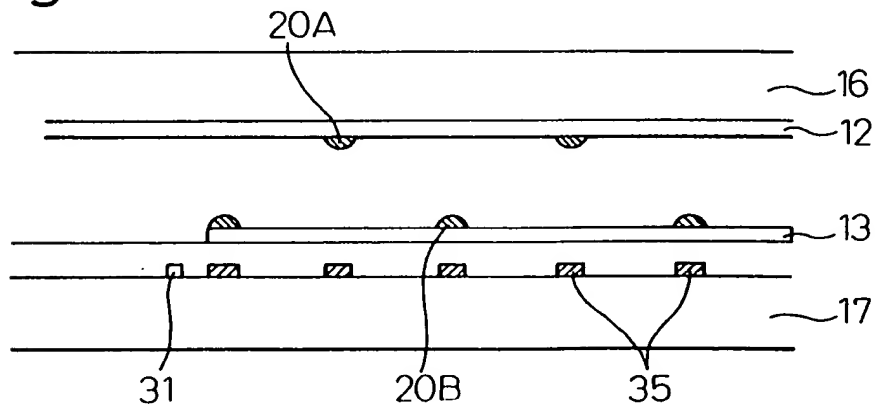


Fig.78B



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Fig.79A

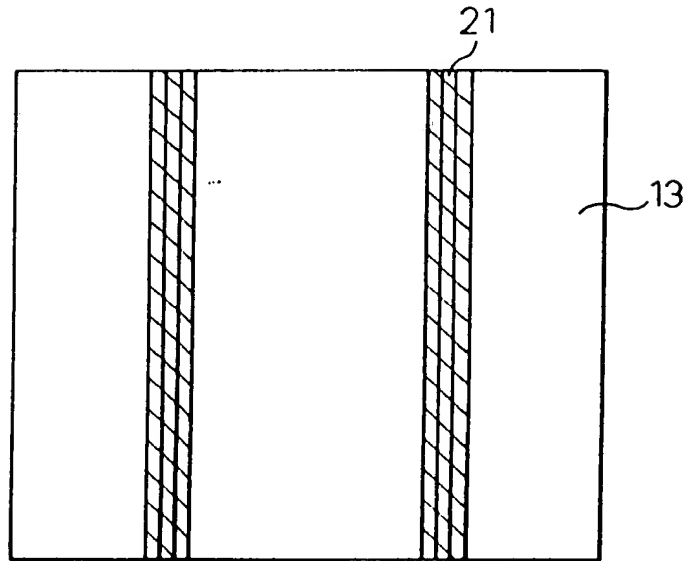
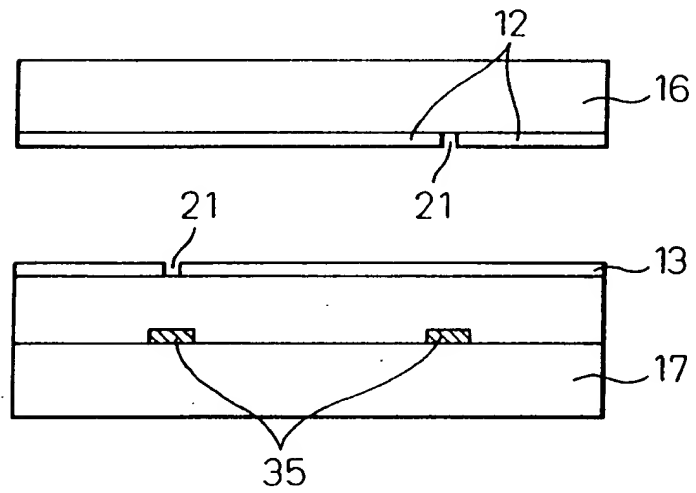


Fig.79B



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Fig. 80A

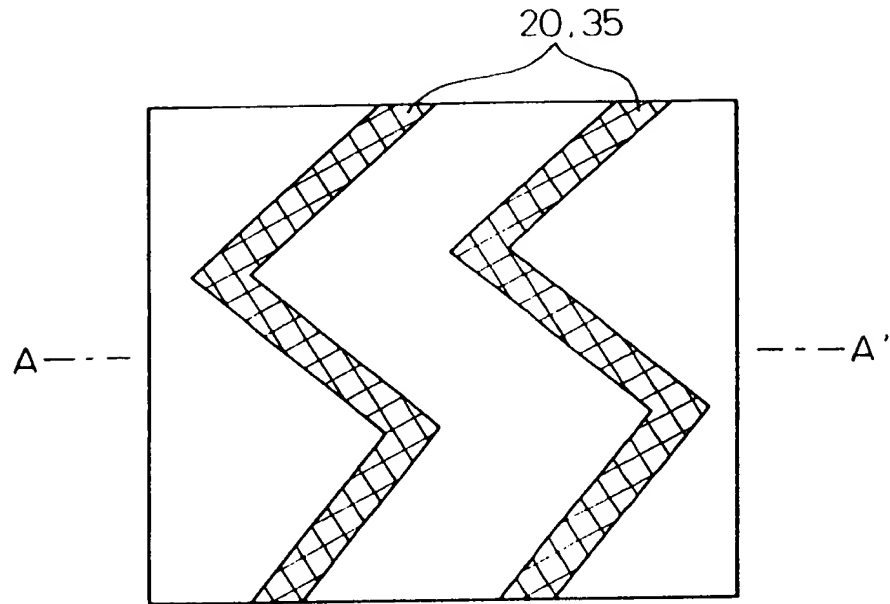
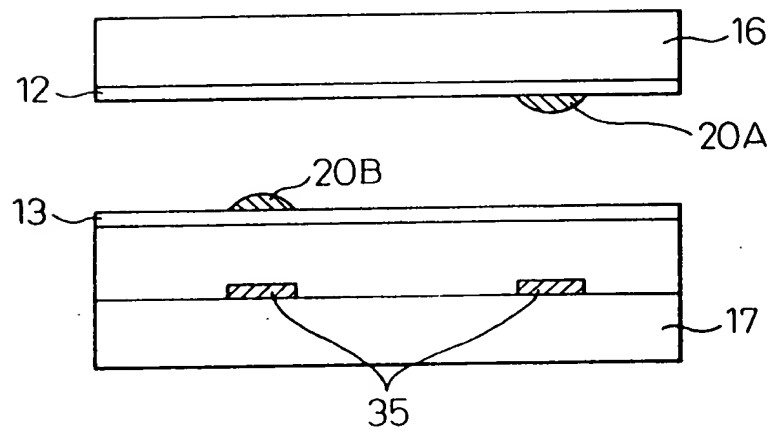


Fig. 80B



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Fig.81A

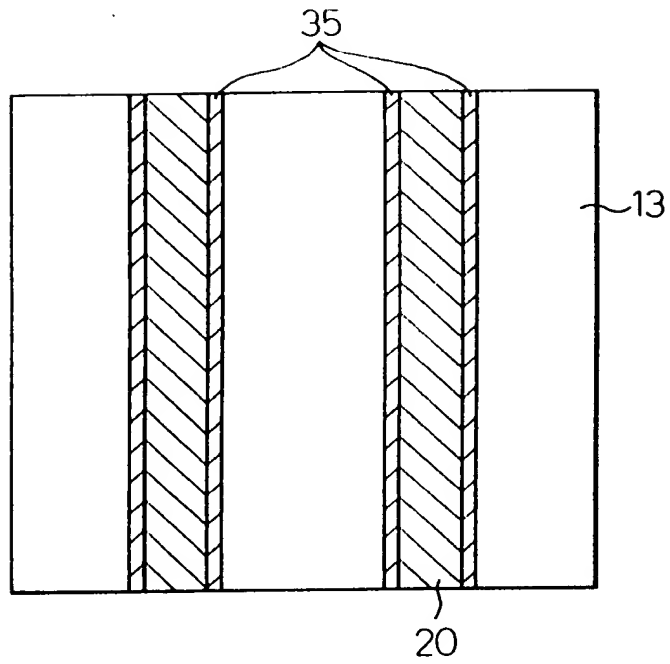
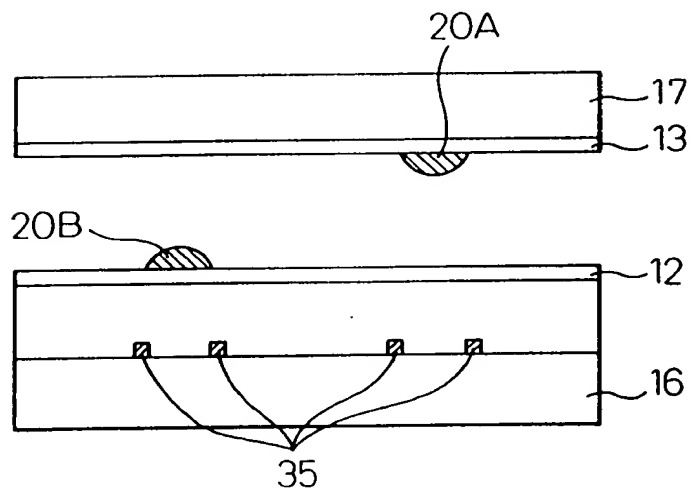
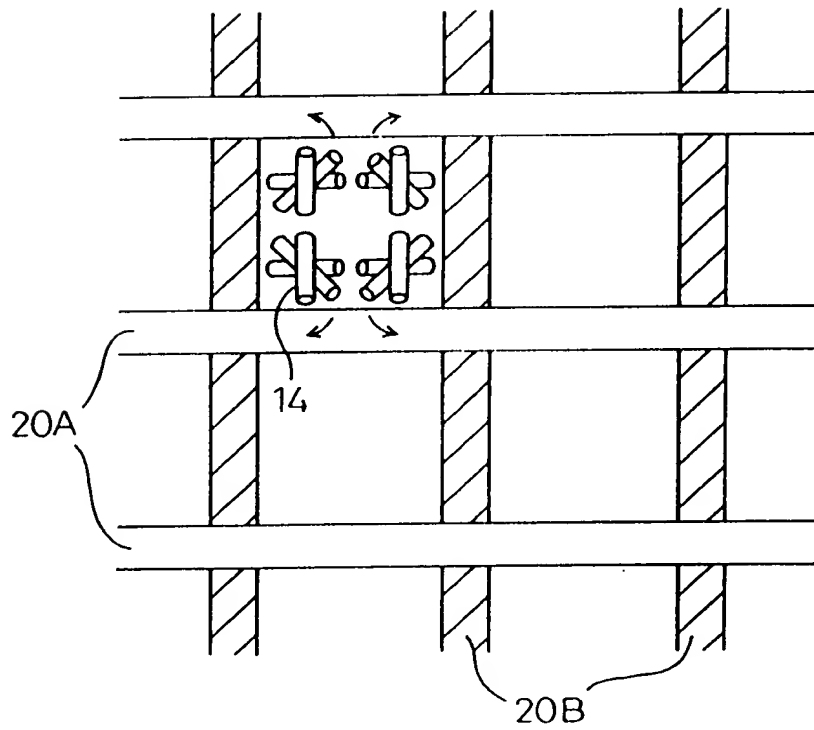


Fig.81B

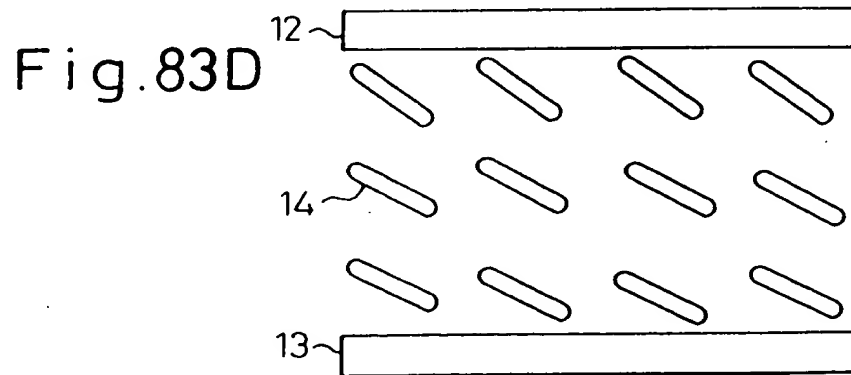
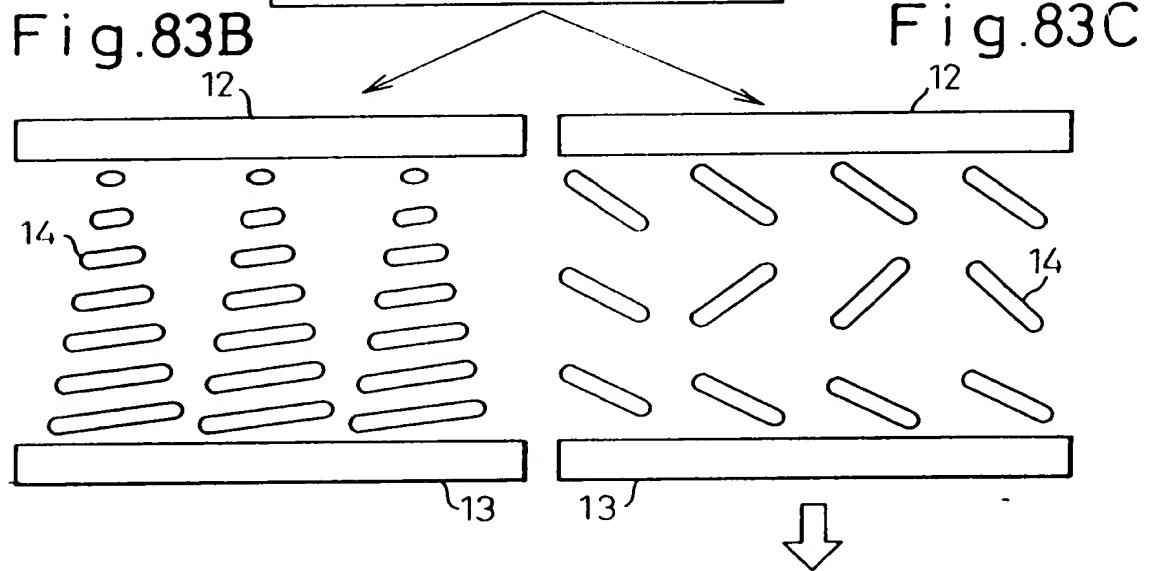
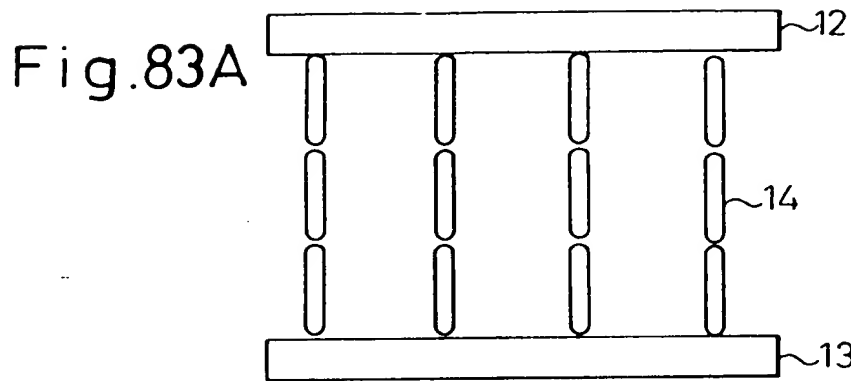


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Fig. 82

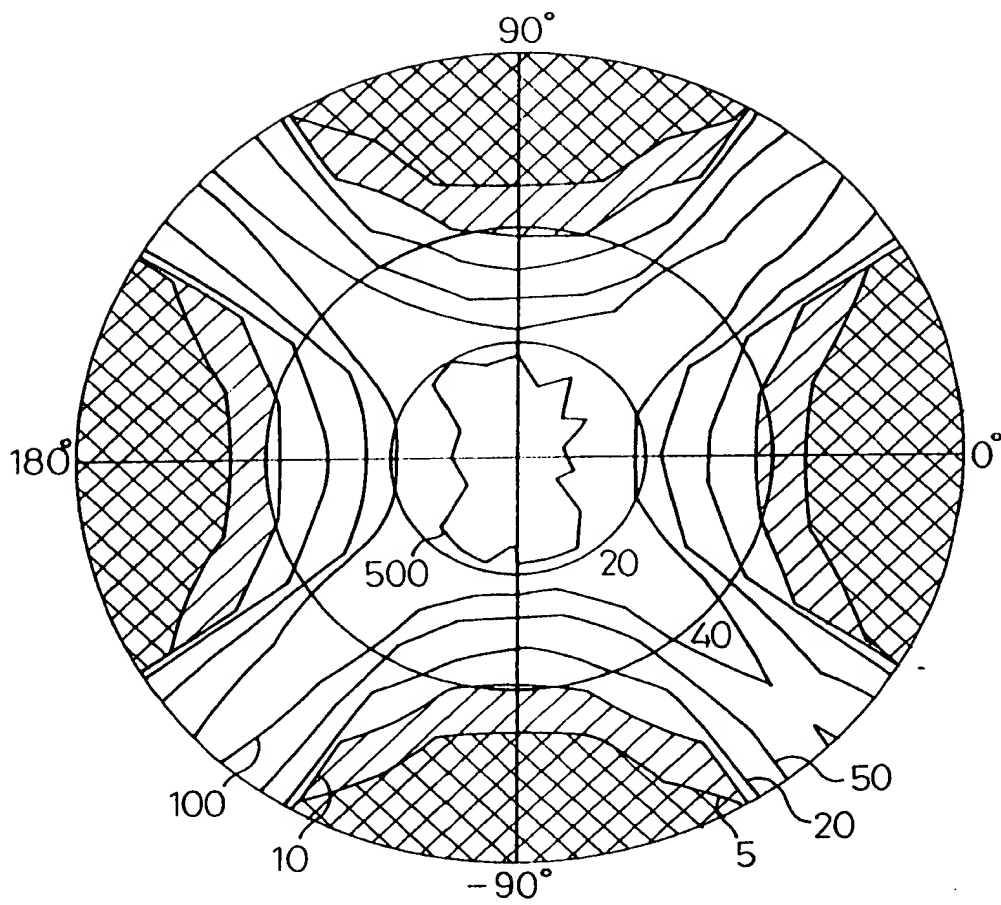


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Fig. 84



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Fig. 85A

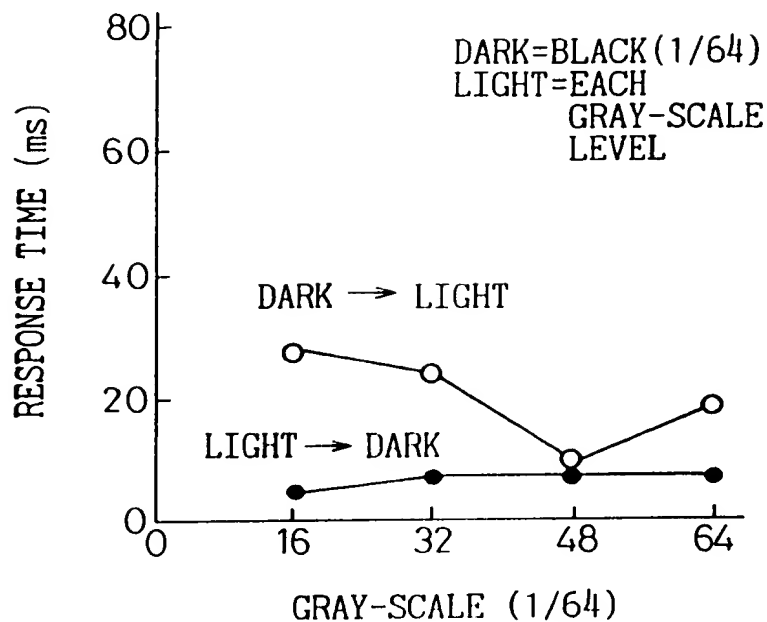
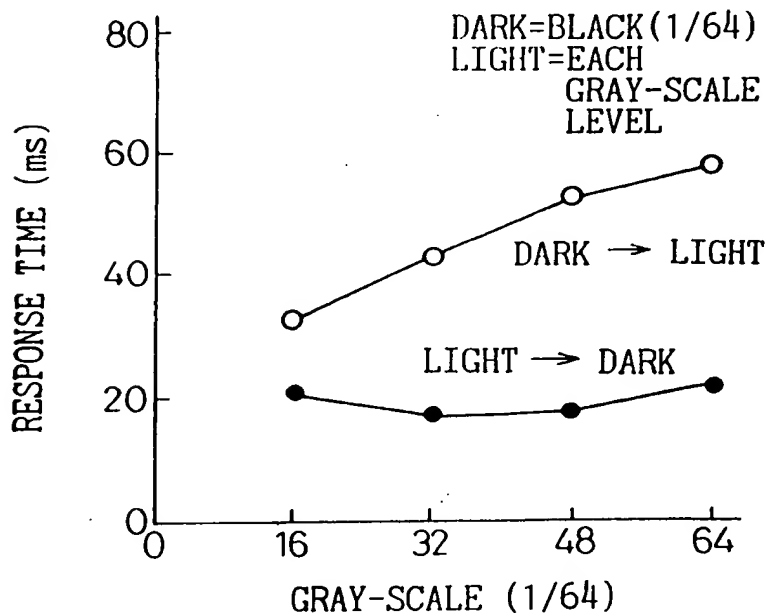


Fig. 85B



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Fig. 85C

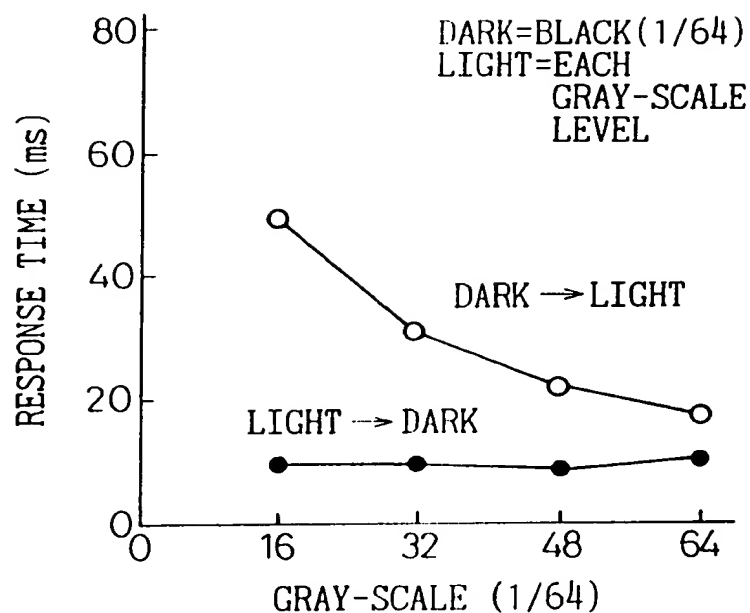
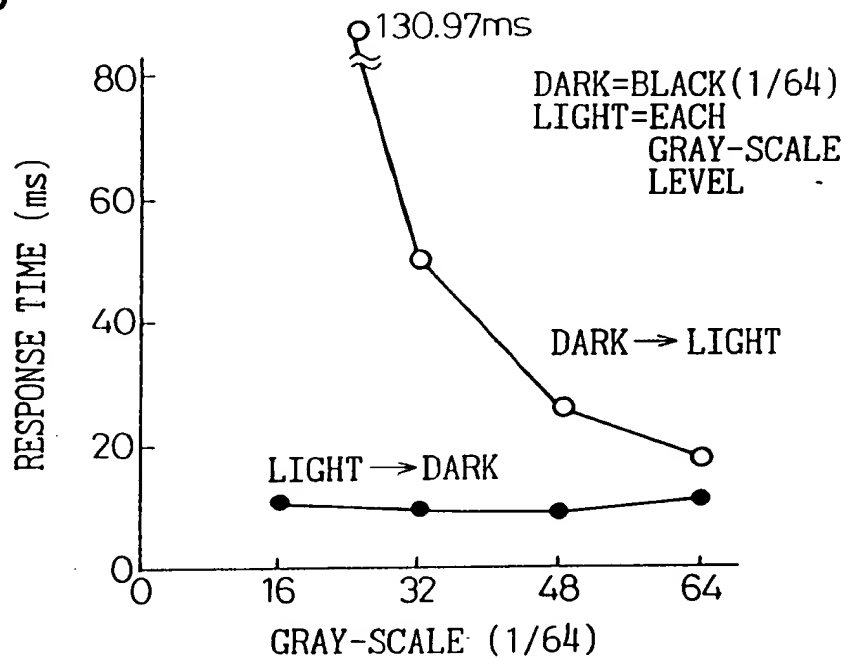


Fig. 85D



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Fig.86A

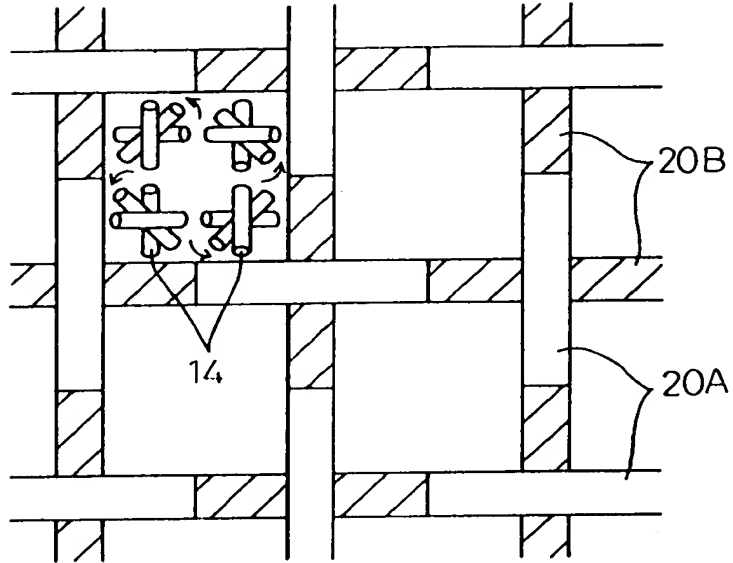
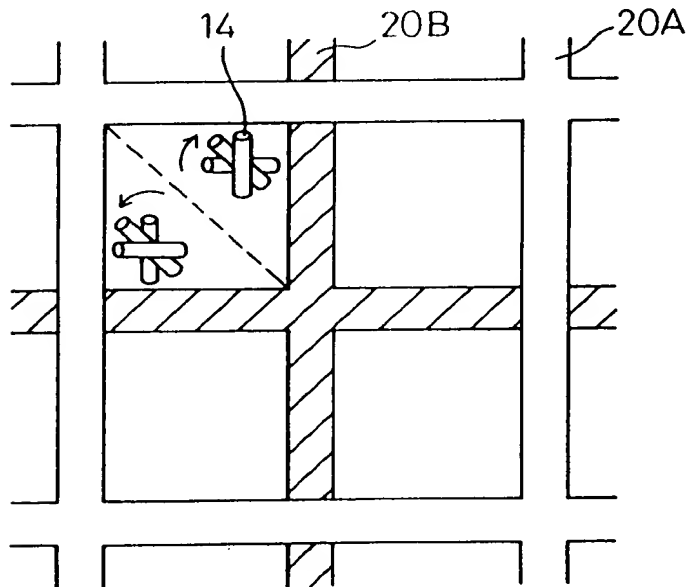


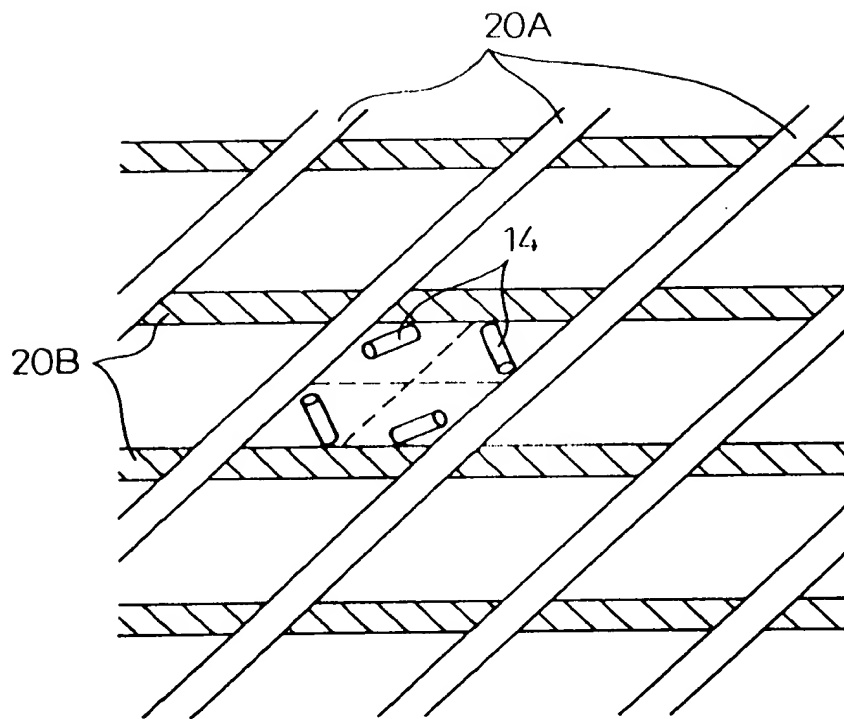
Fig.86B



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Fig. 87



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Fig. 88

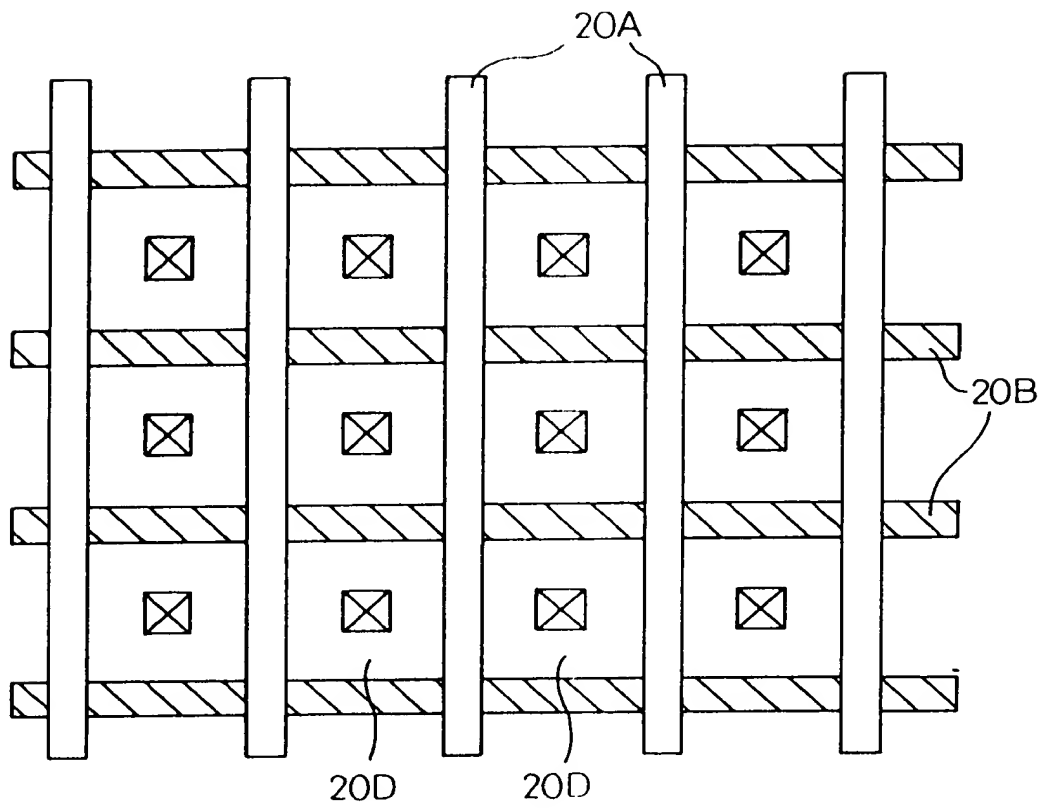
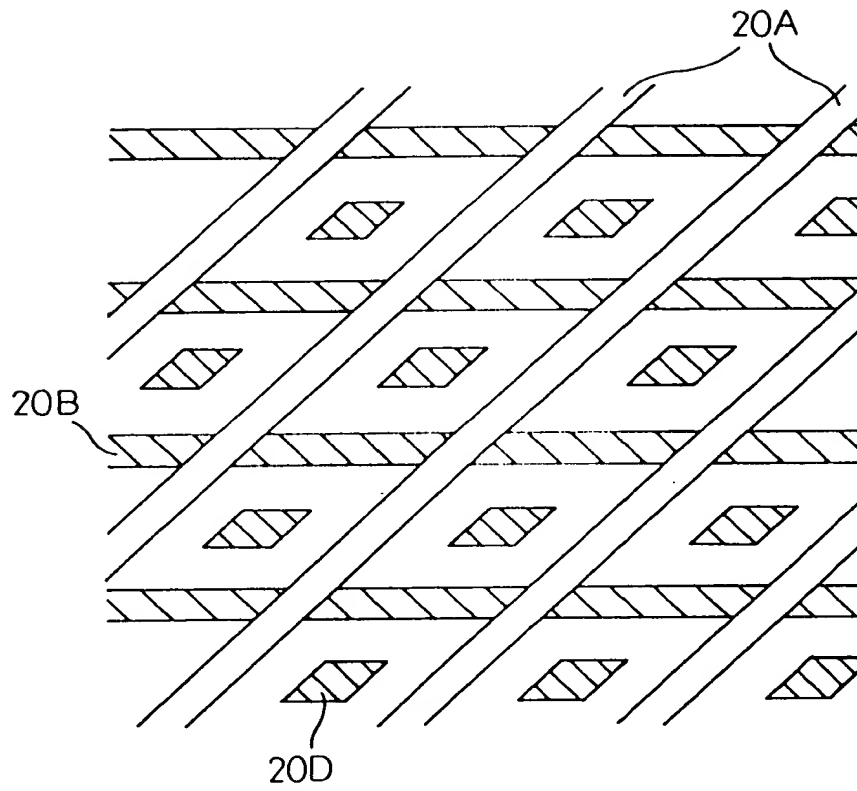


Fig. 89



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Fig. 90A

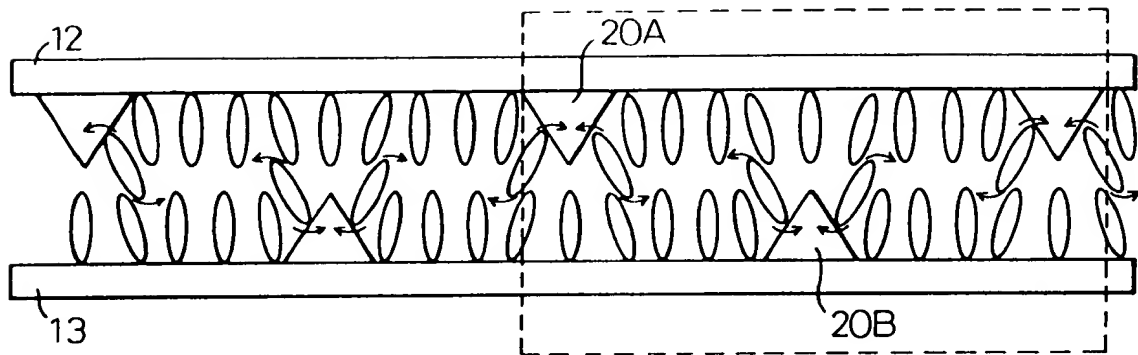
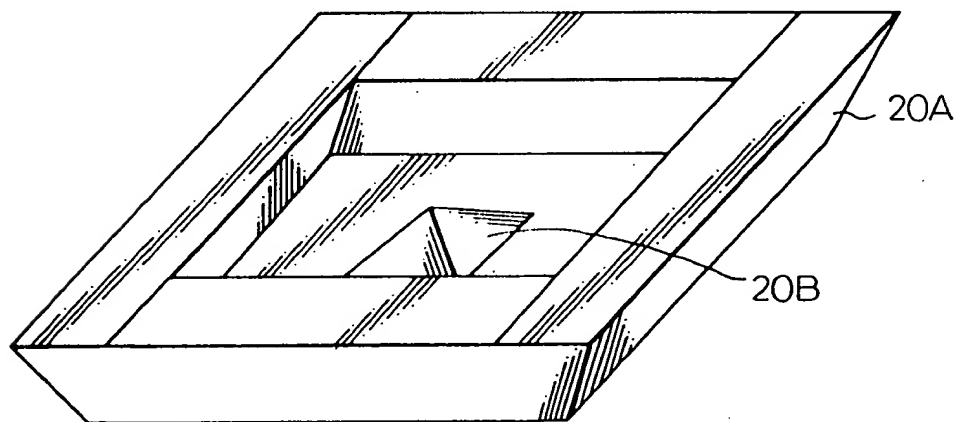


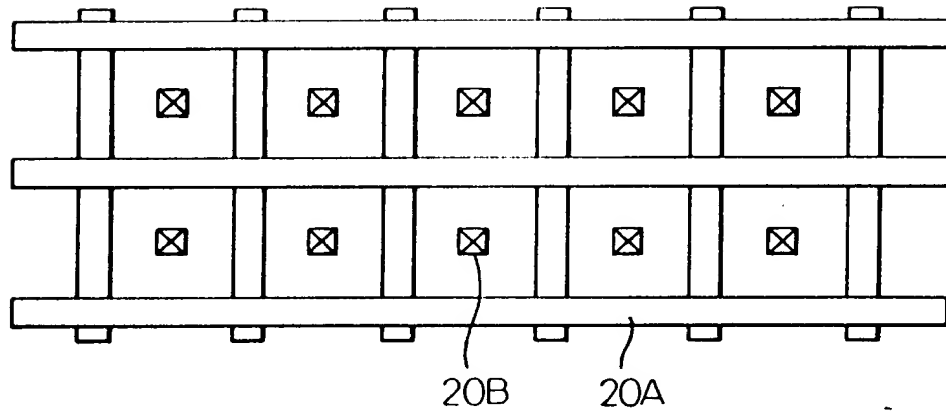
Fig. 90B



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Fig. 91



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Fig.92A

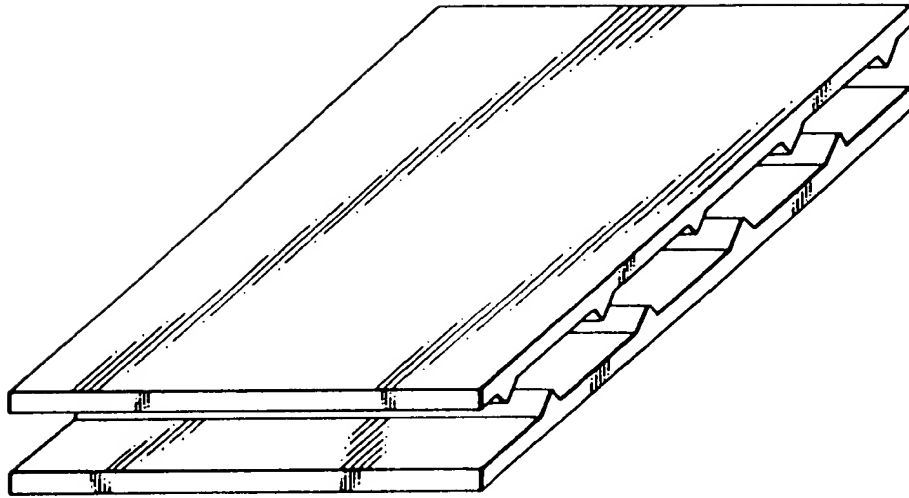


Fig.92B

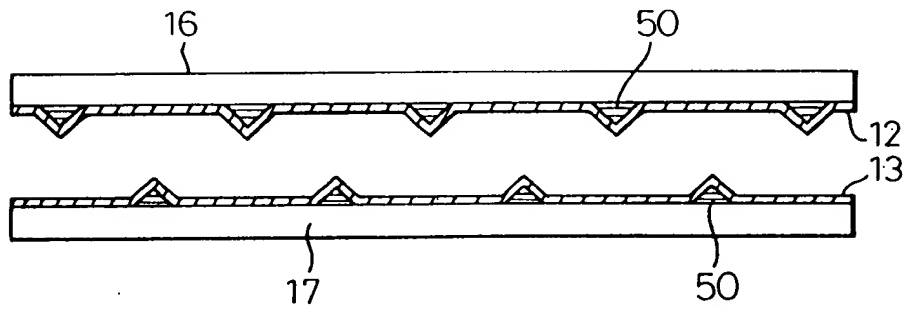
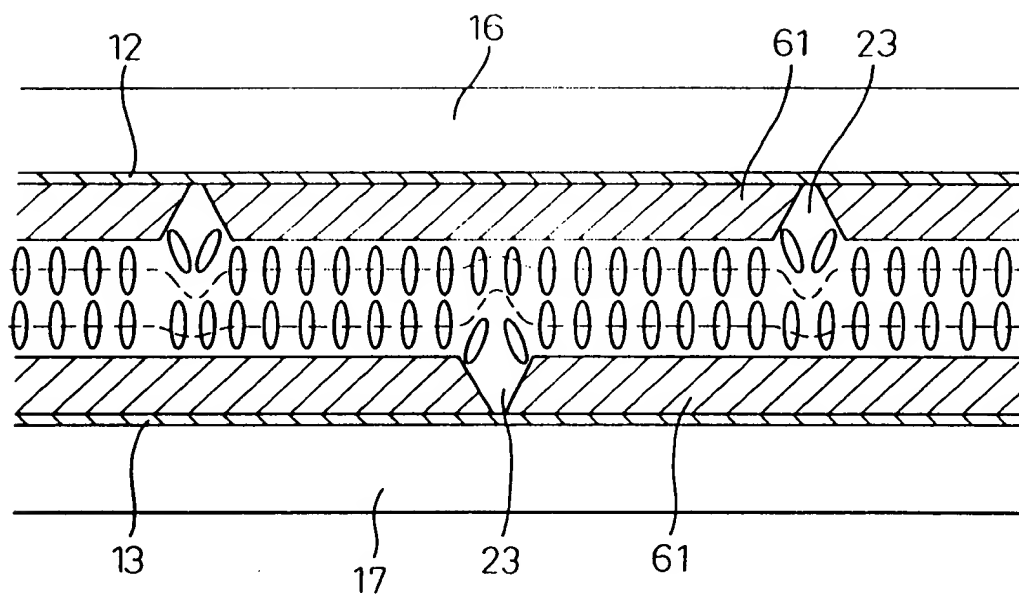


Fig. 93



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Fig.94

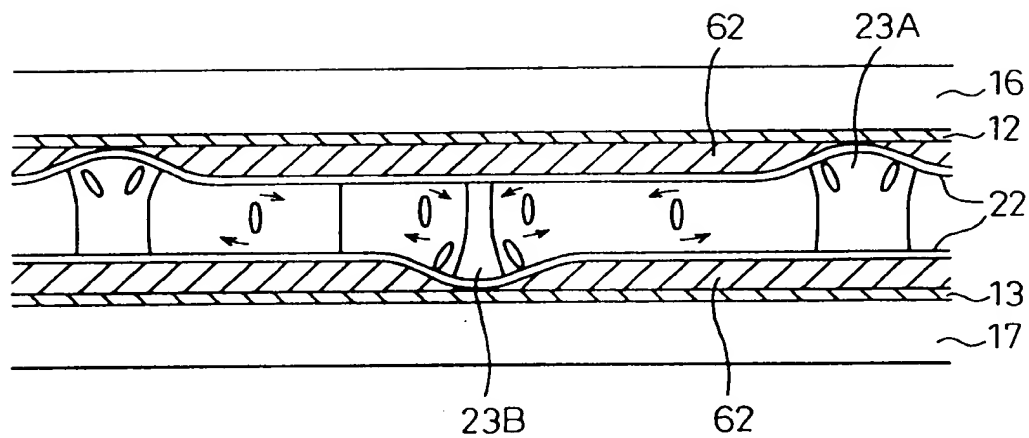
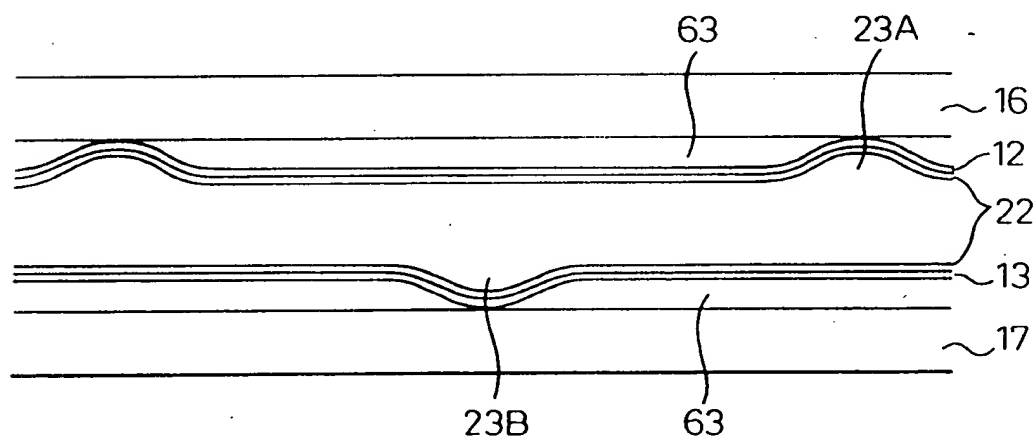


Fig.95



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Fig.96

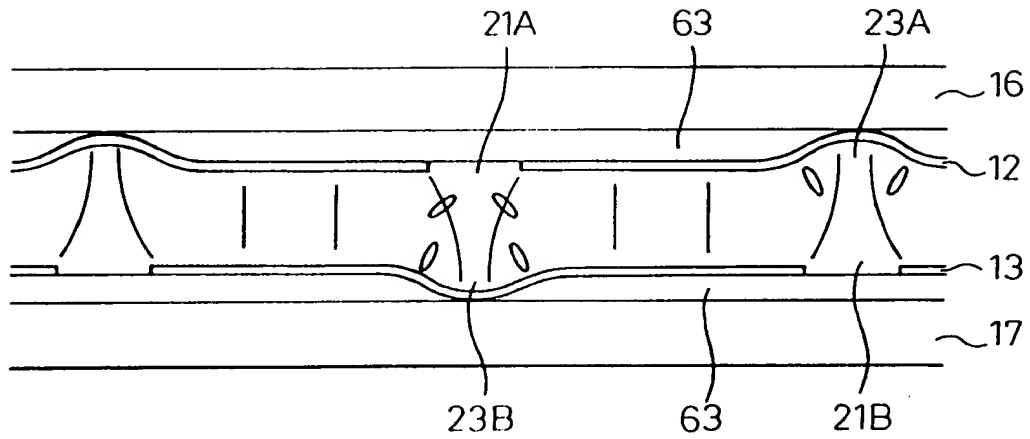


Fig.97

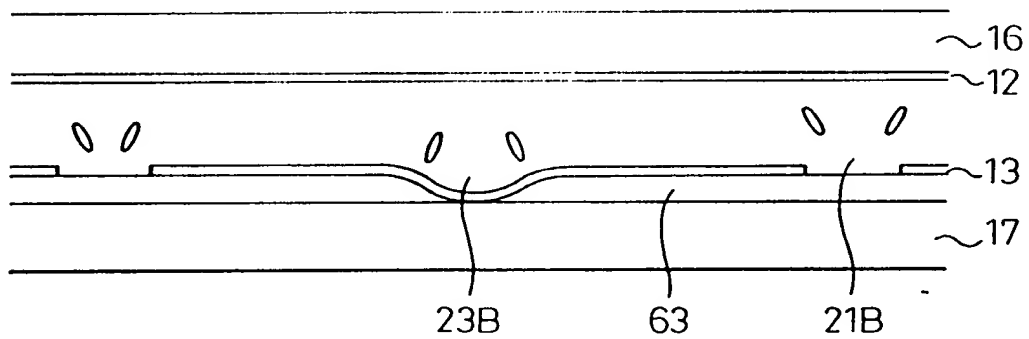
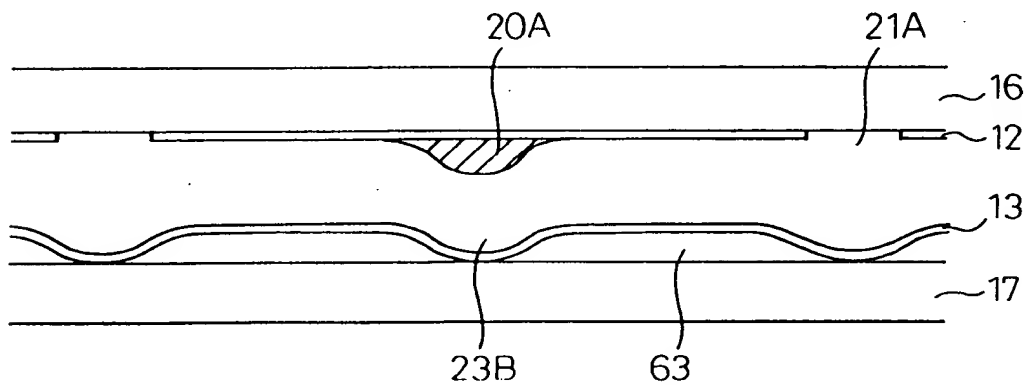


Fig.98



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Fig.99A

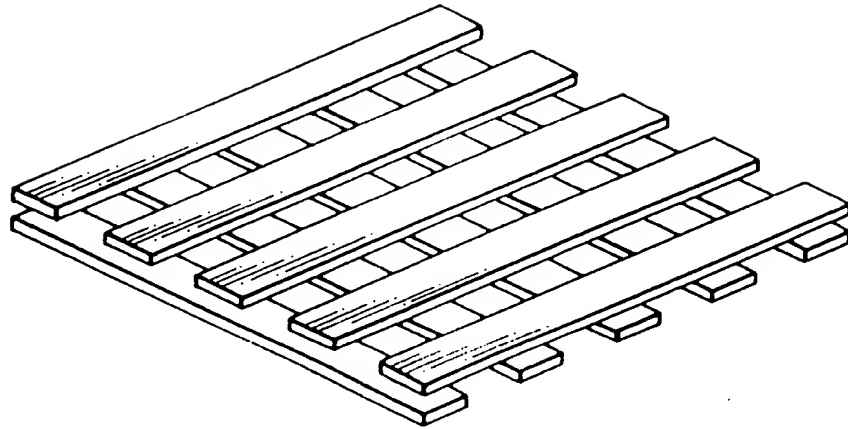


Fig.99B

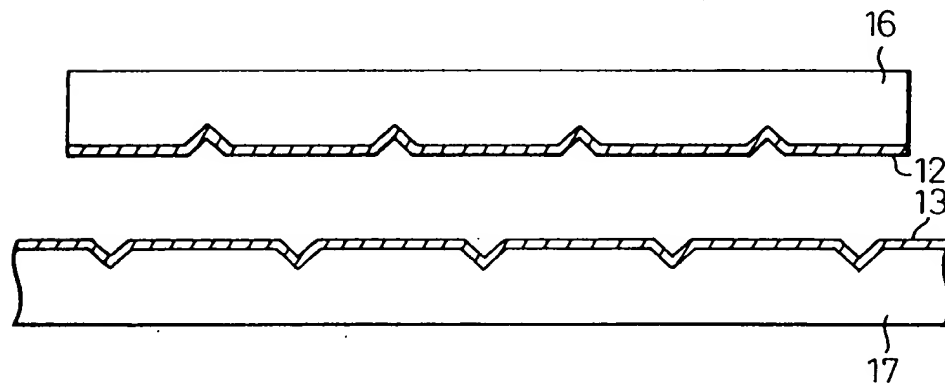


Fig.100A

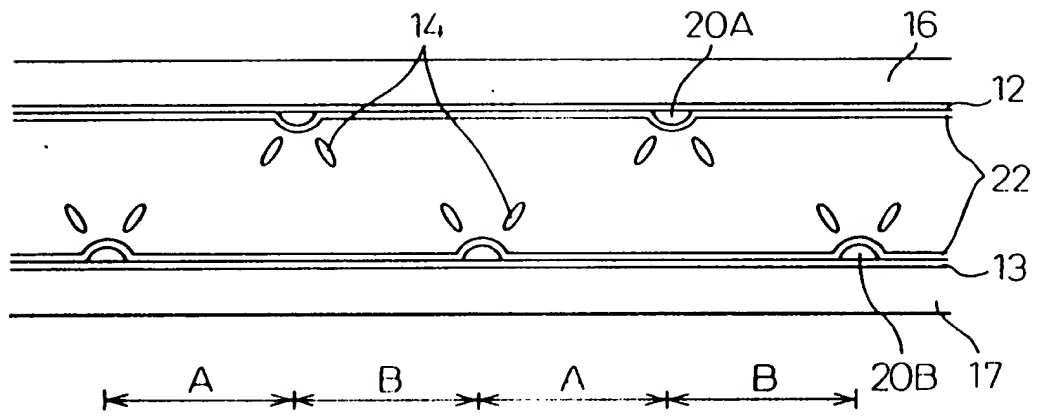


Fig.100B

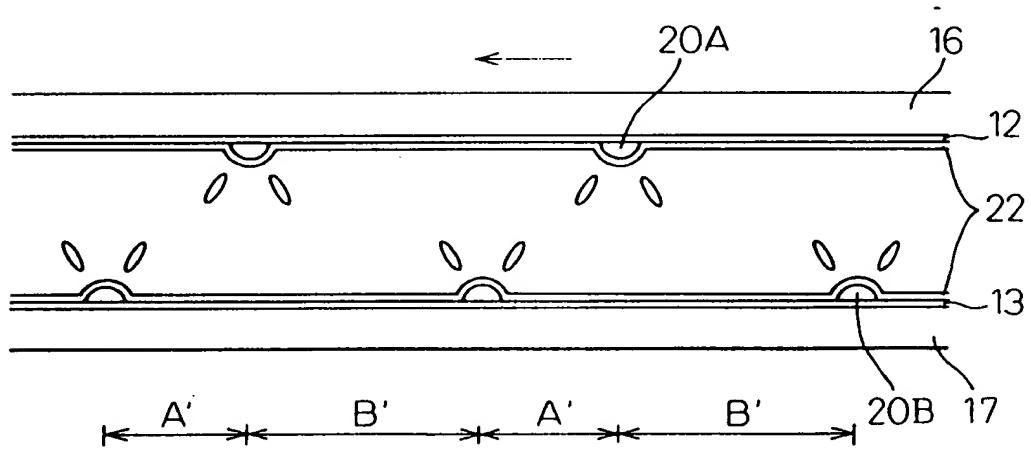


Fig. 101A

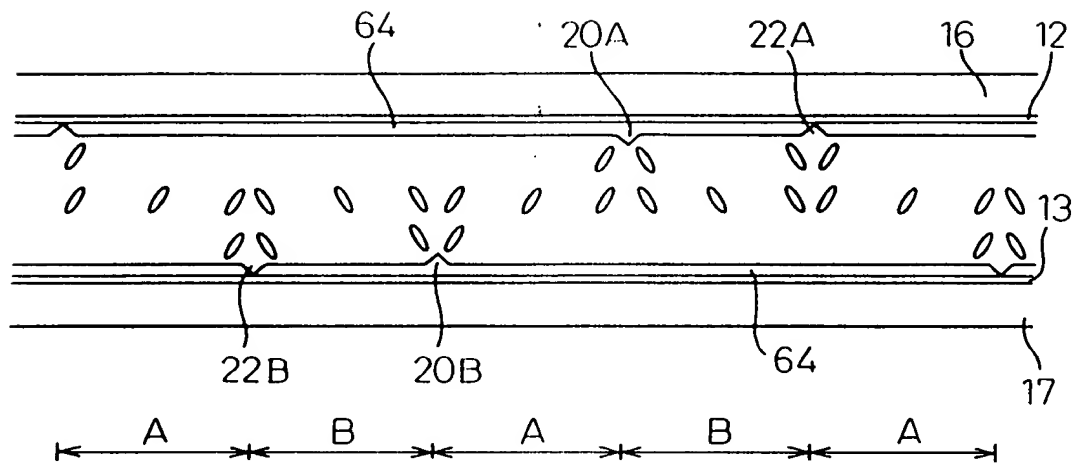


Fig. 101B

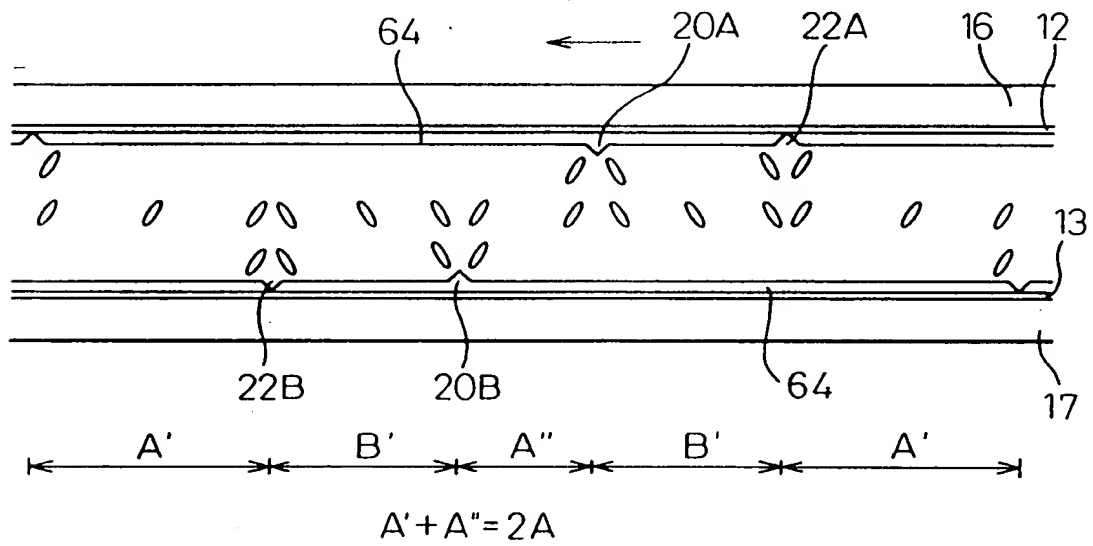
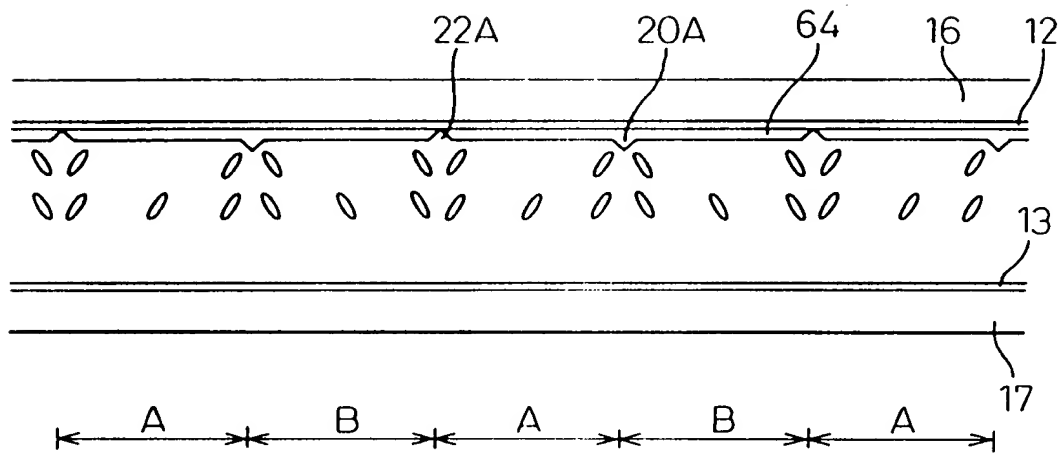


Fig.102



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Fig.103A

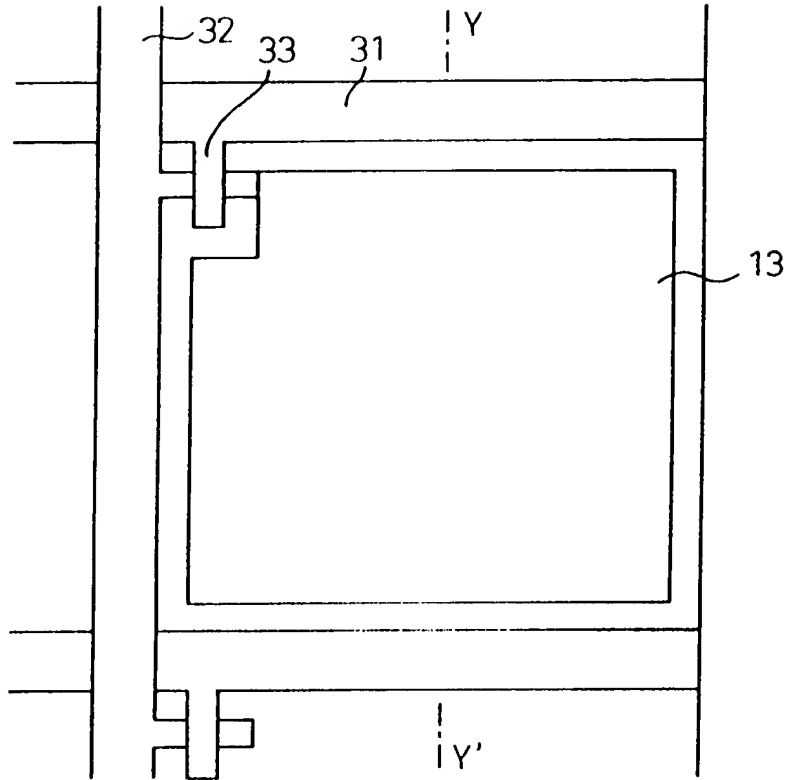
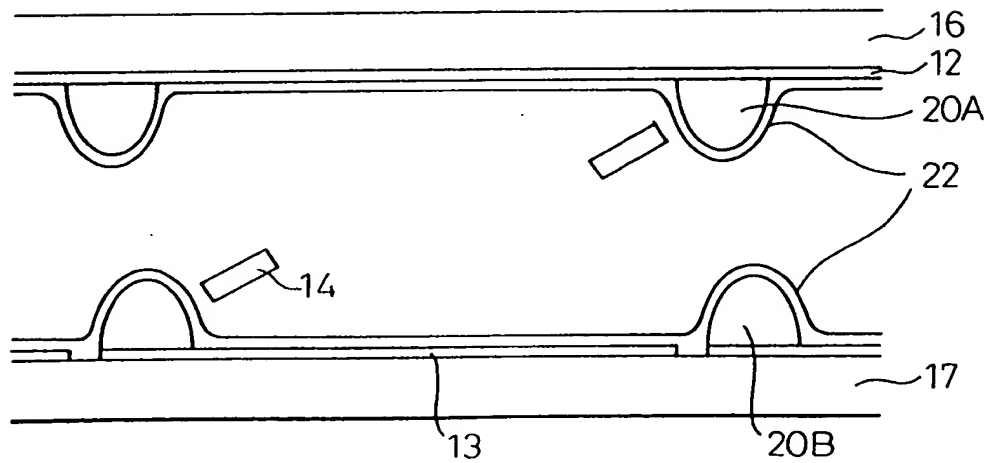


Fig. 103B



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Fig.104

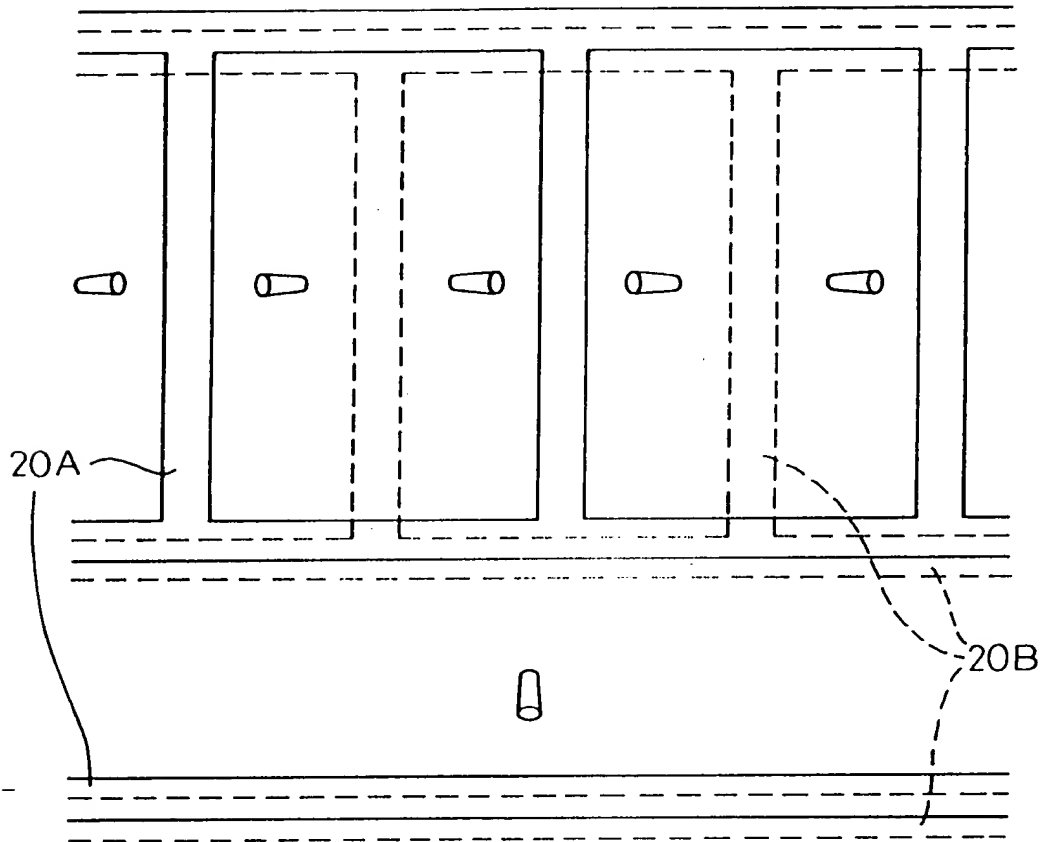
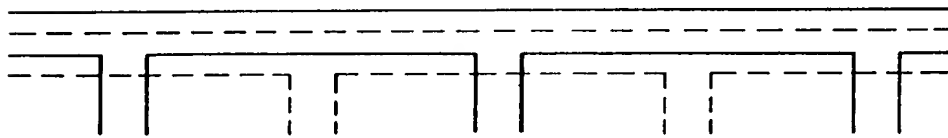


Fig. 14



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Fig.105A

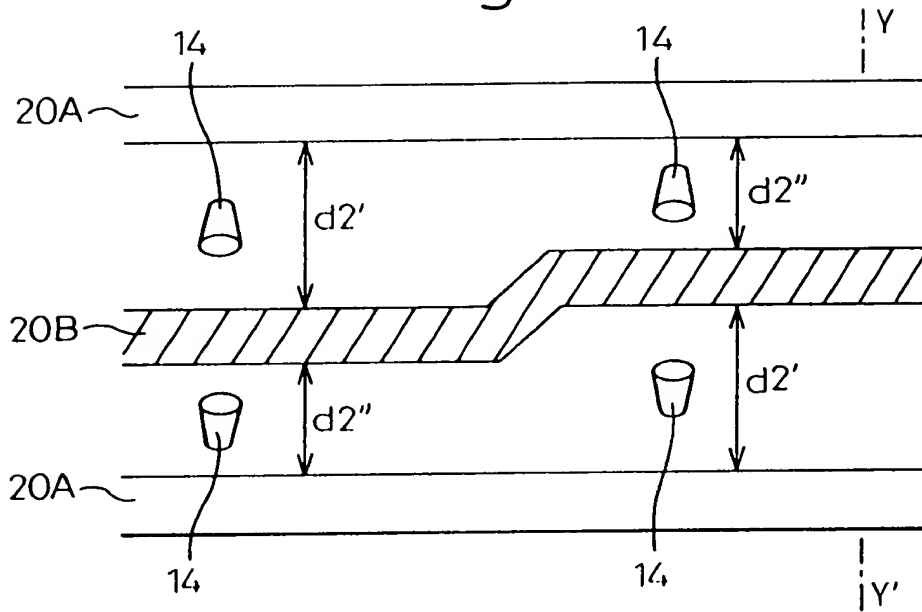
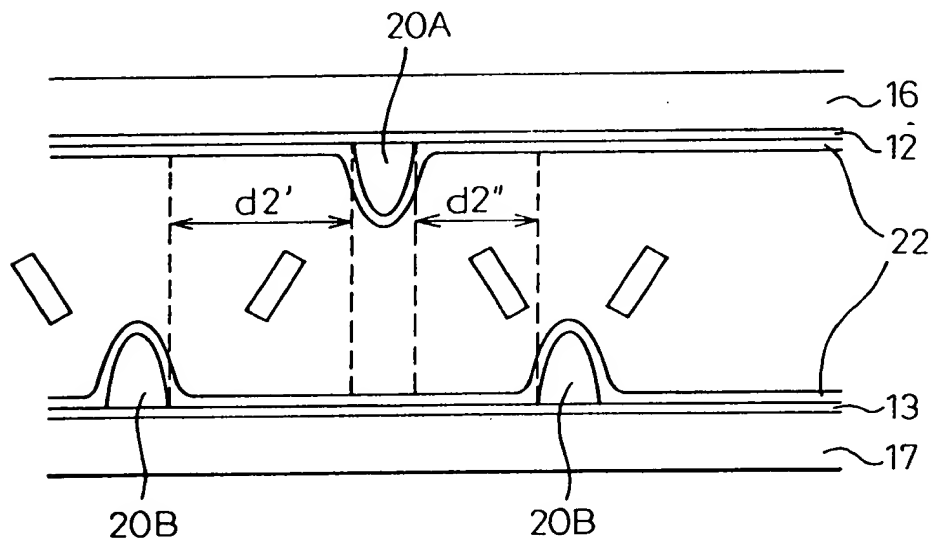


Fig.105B



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Fig.106

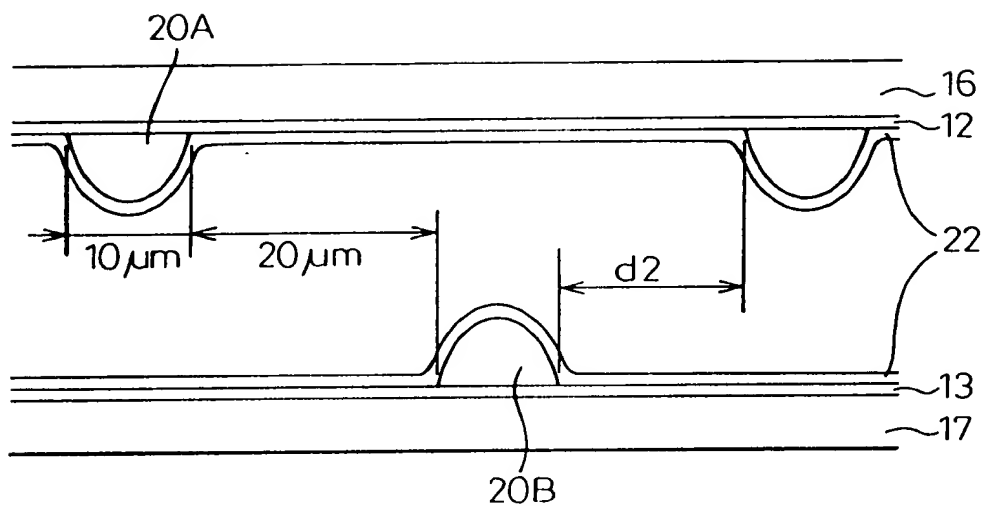
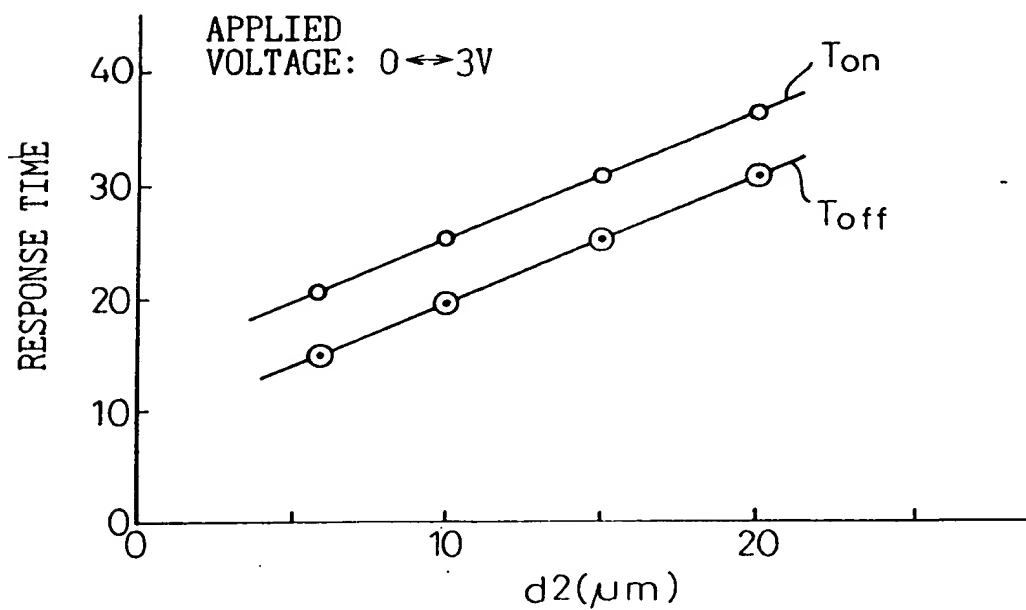


Fig.107



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Fig.108A

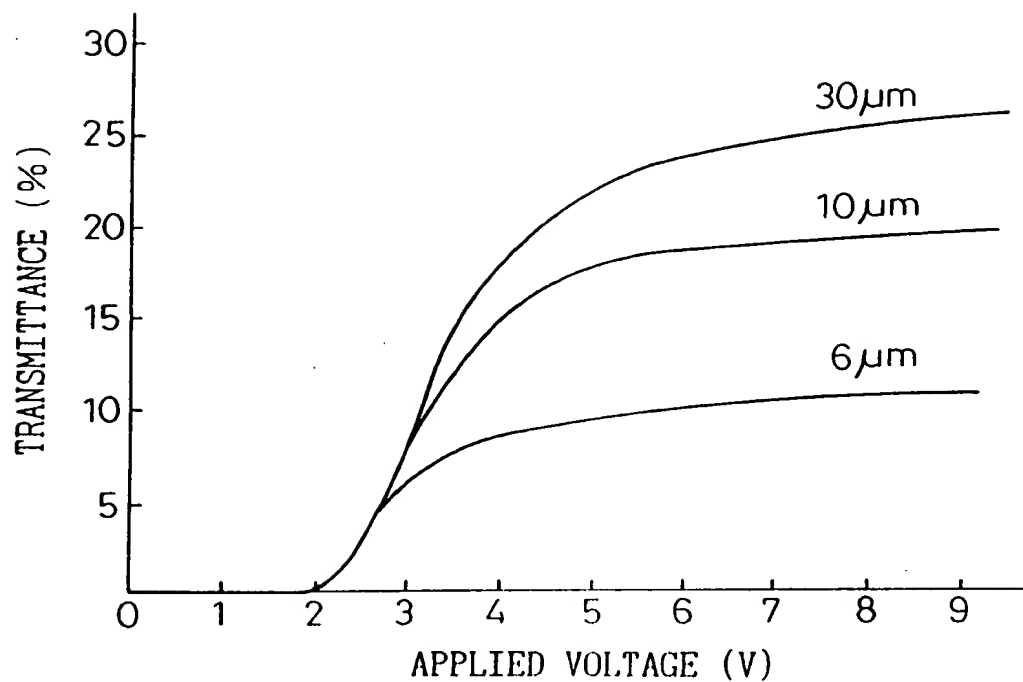
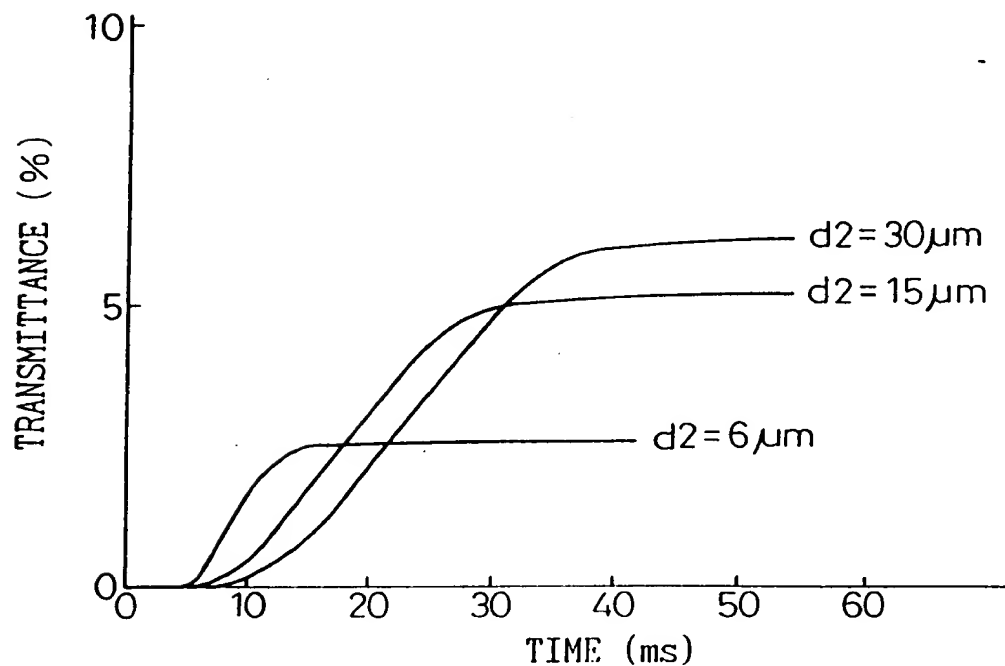


Fig.108B



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Fig.109A

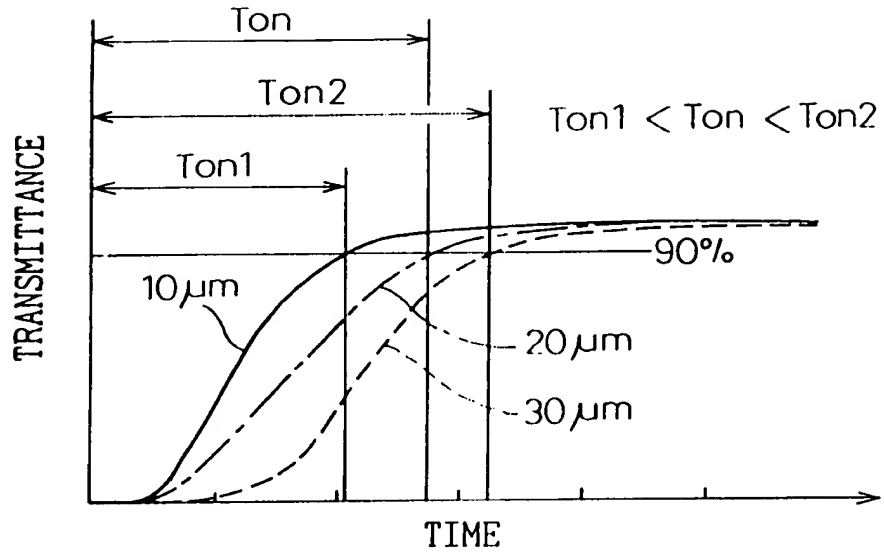
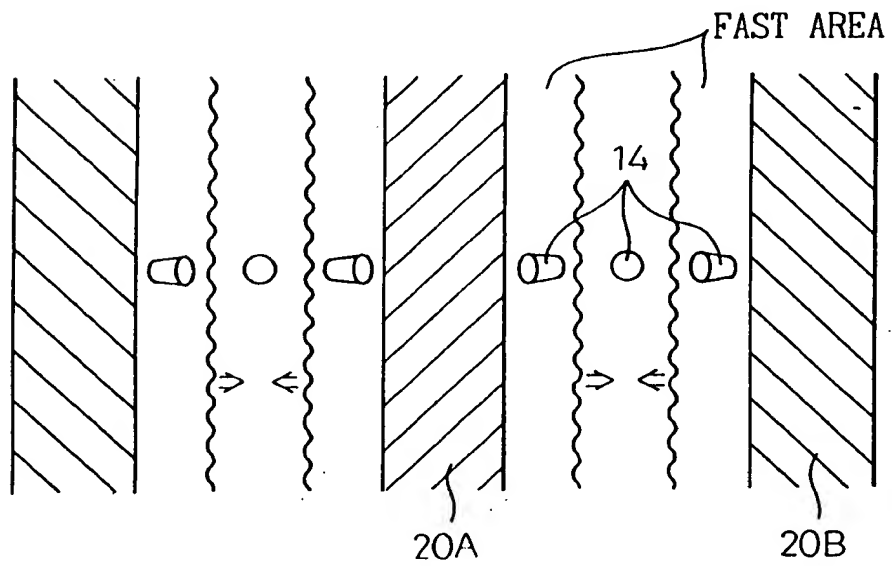
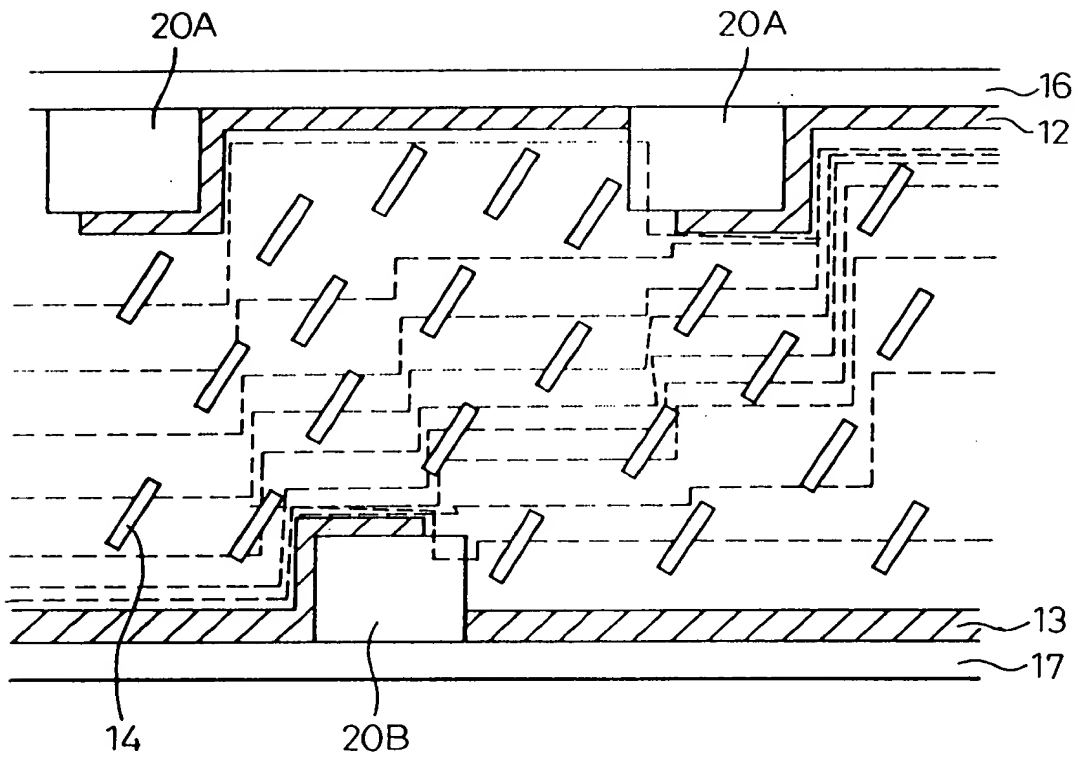


Fig.109B



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Fig. 110

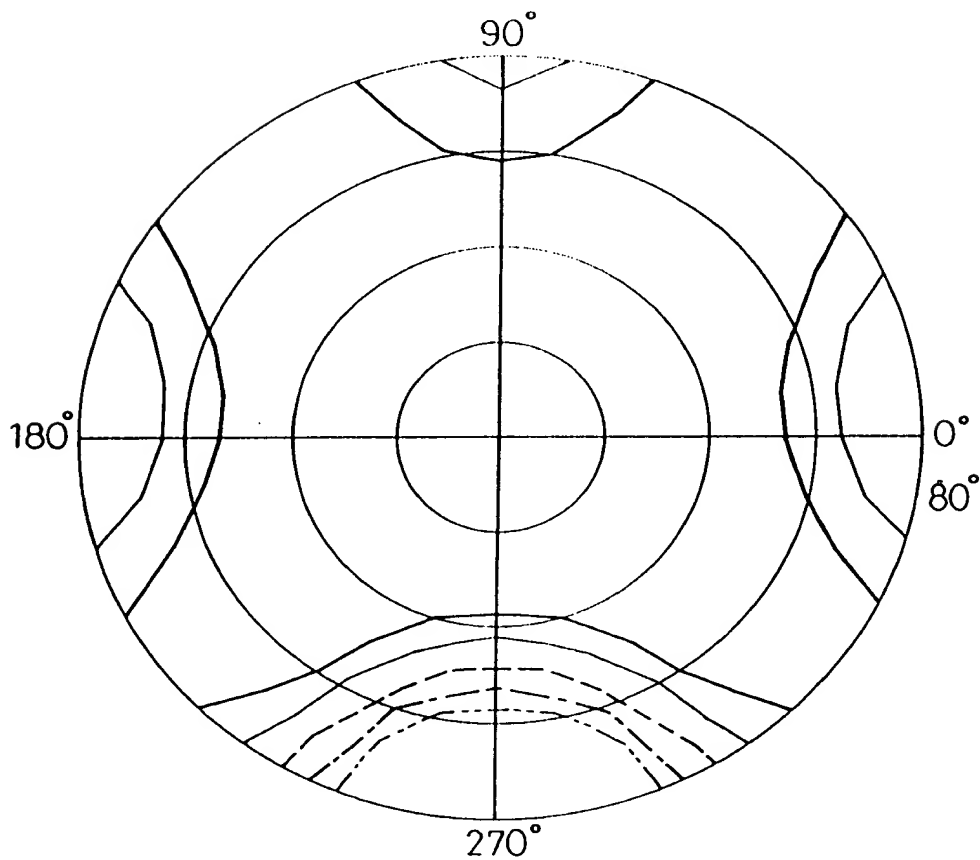


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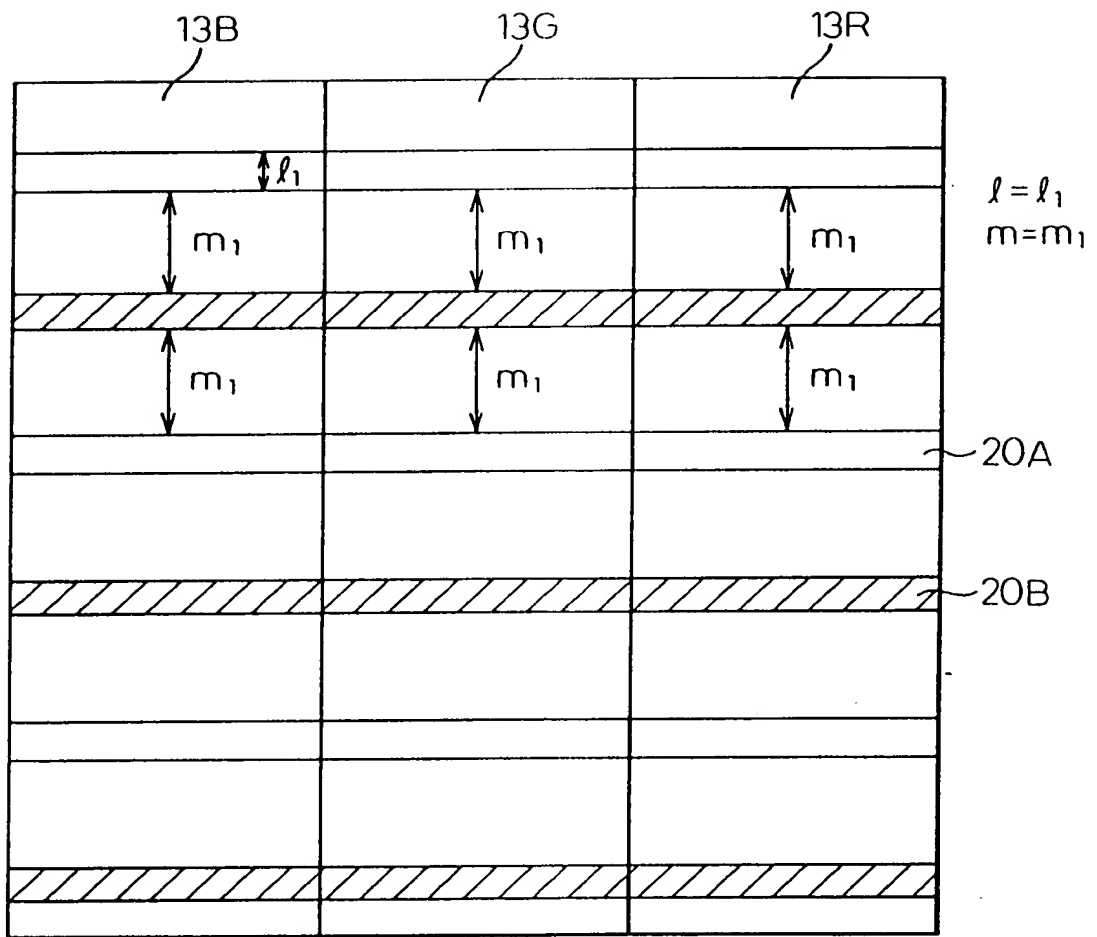
Fig. 111

CONTRAST RATIO	
—————	100.000
—————	50.000
-----	20.000
- - - - -	10.000
- . - . -	5.000



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Fig.112



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Fig. 113

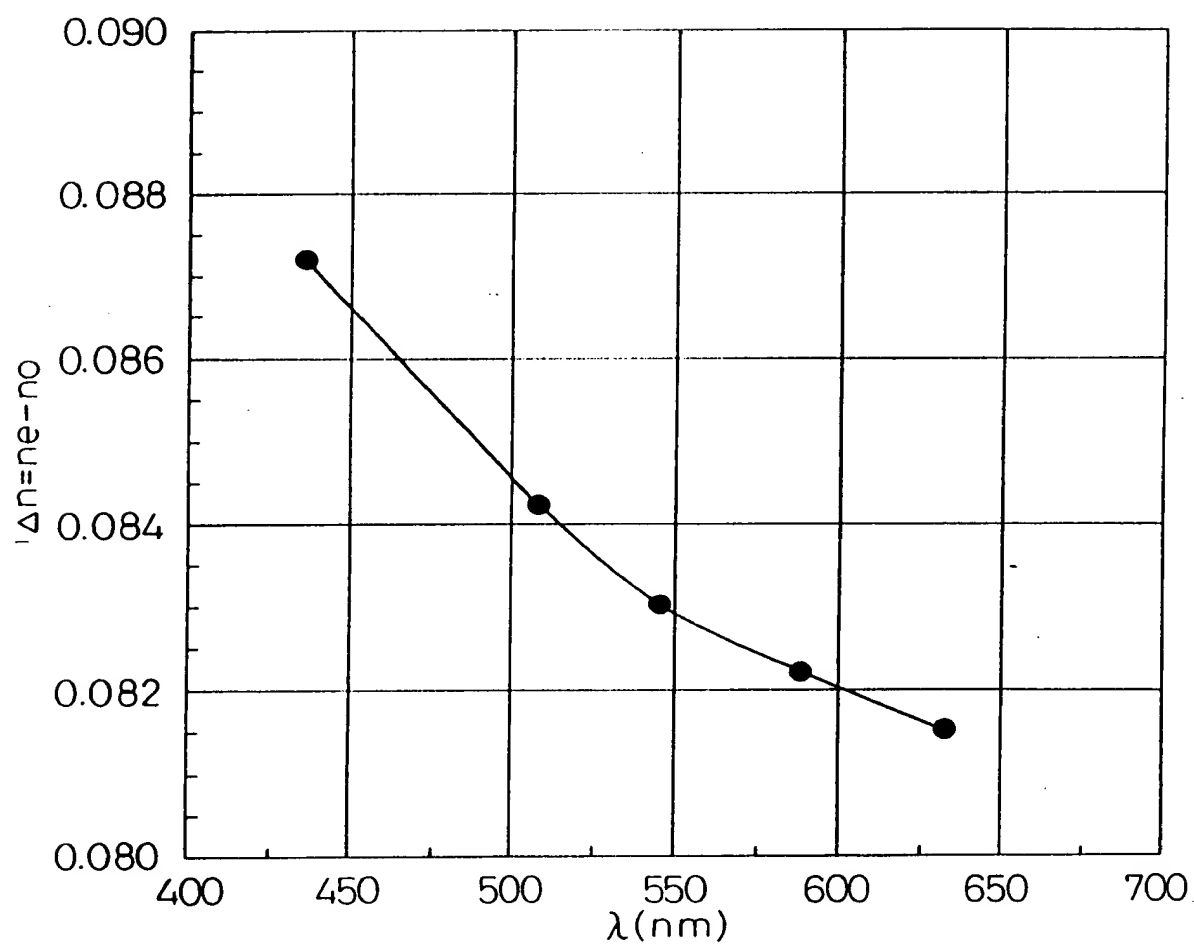
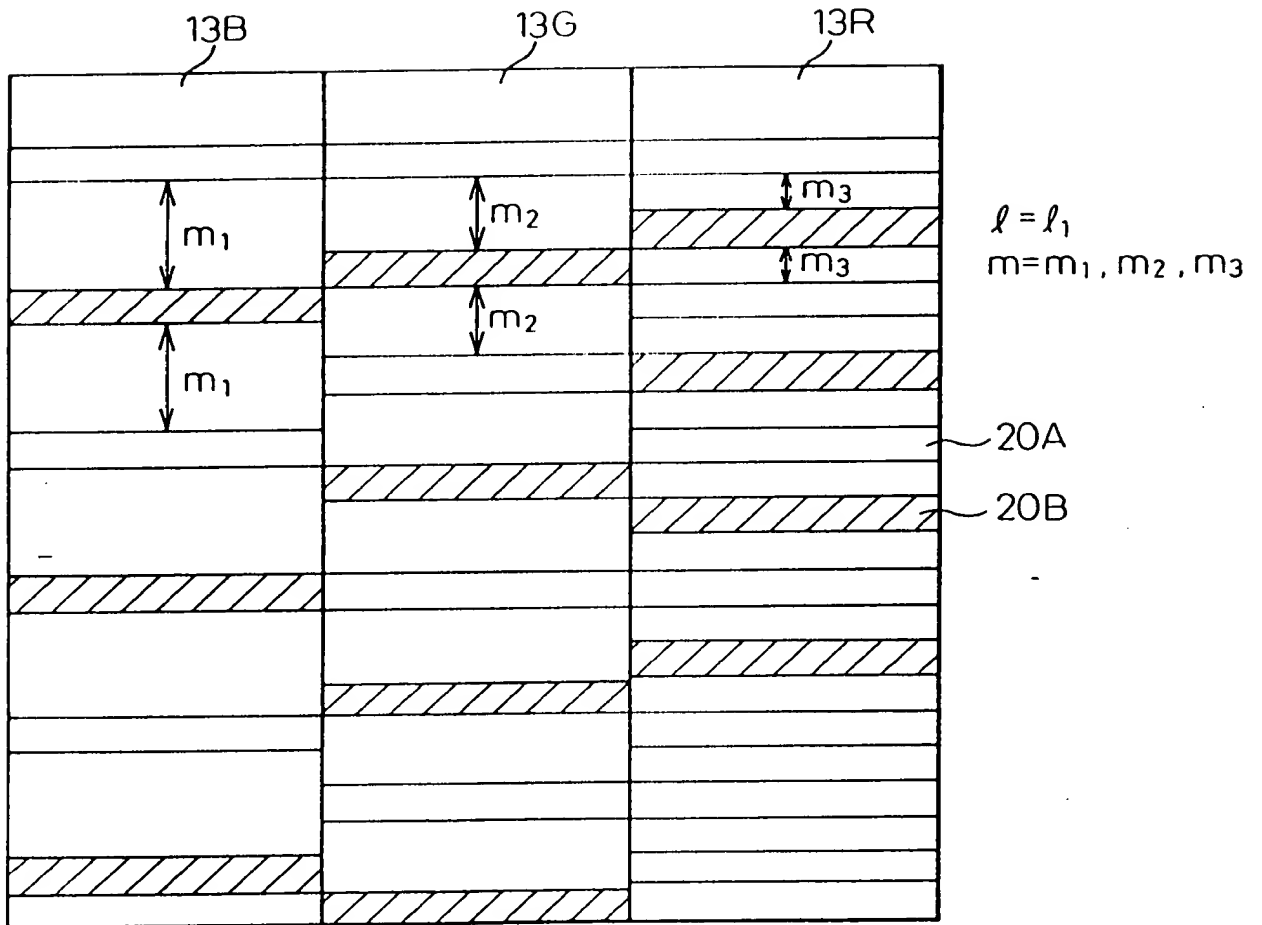
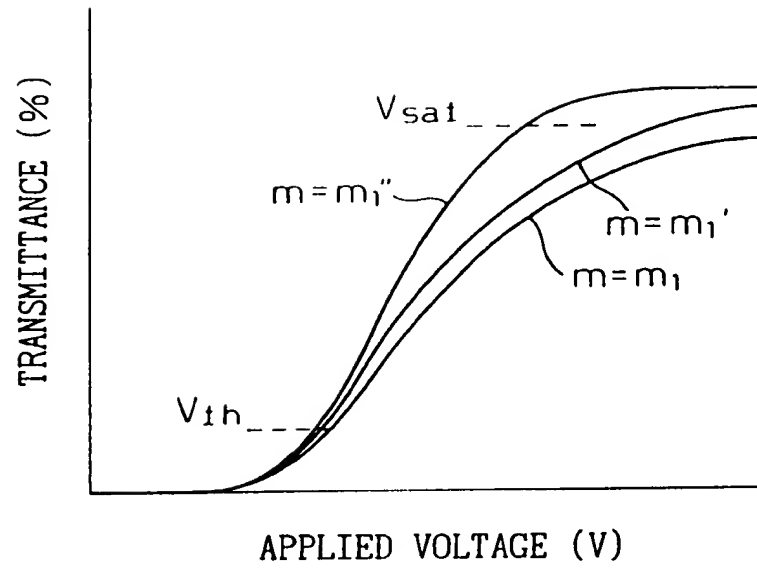


Fig.114



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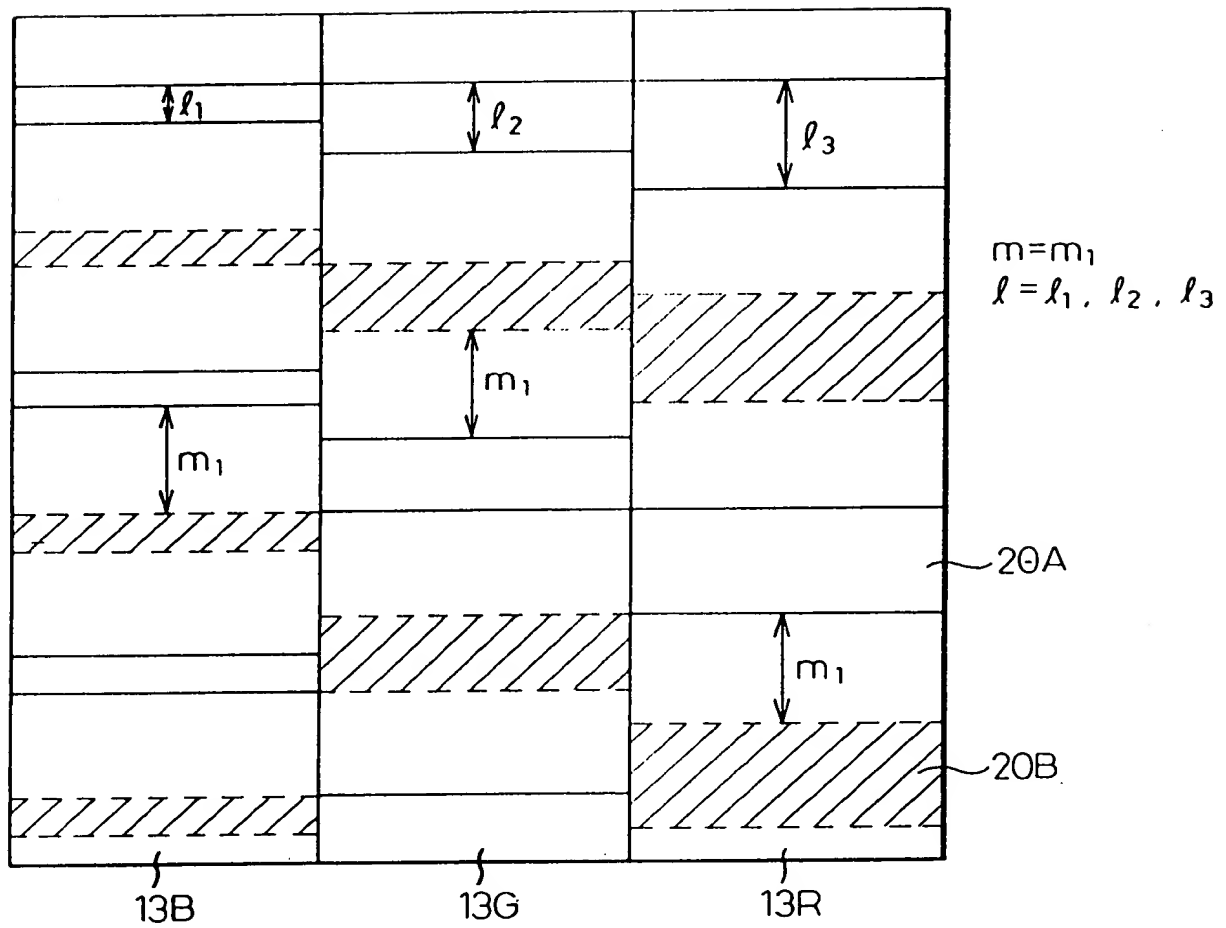
Fig. 115



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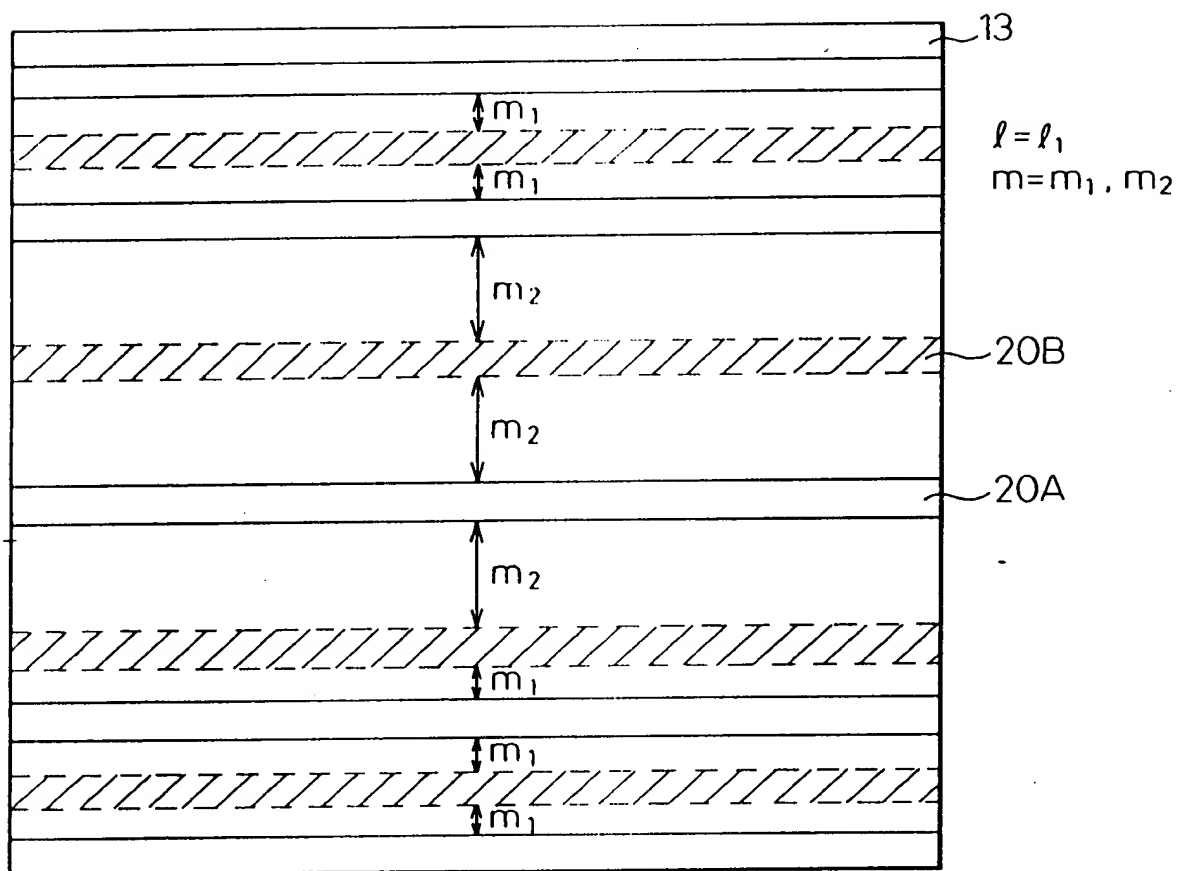
Fig. 116



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Fig.117



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Fig. 118

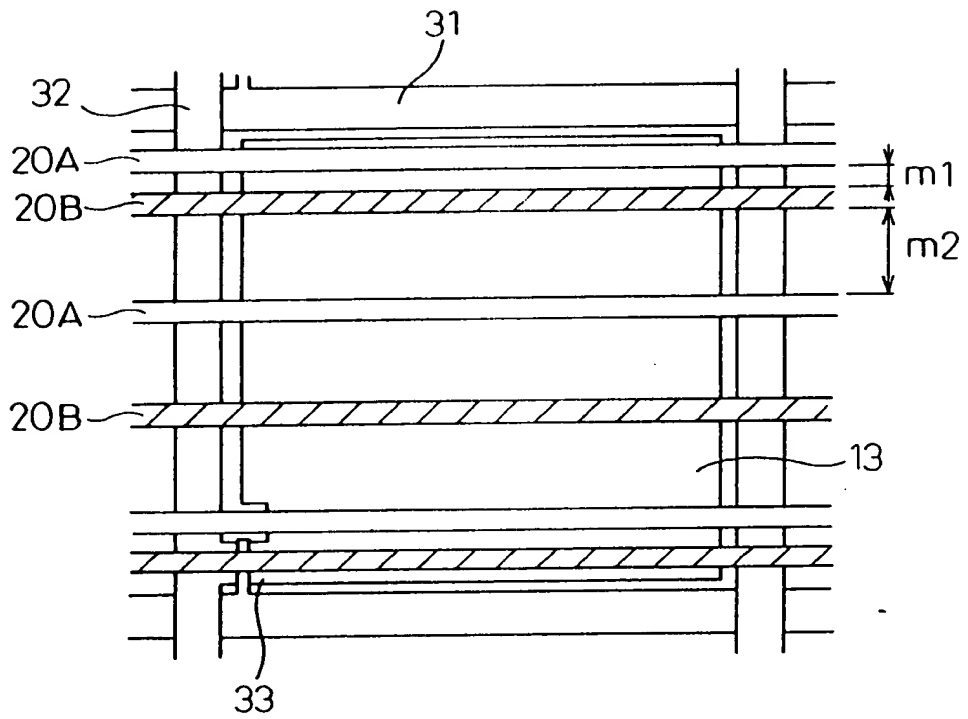


Fig. 119

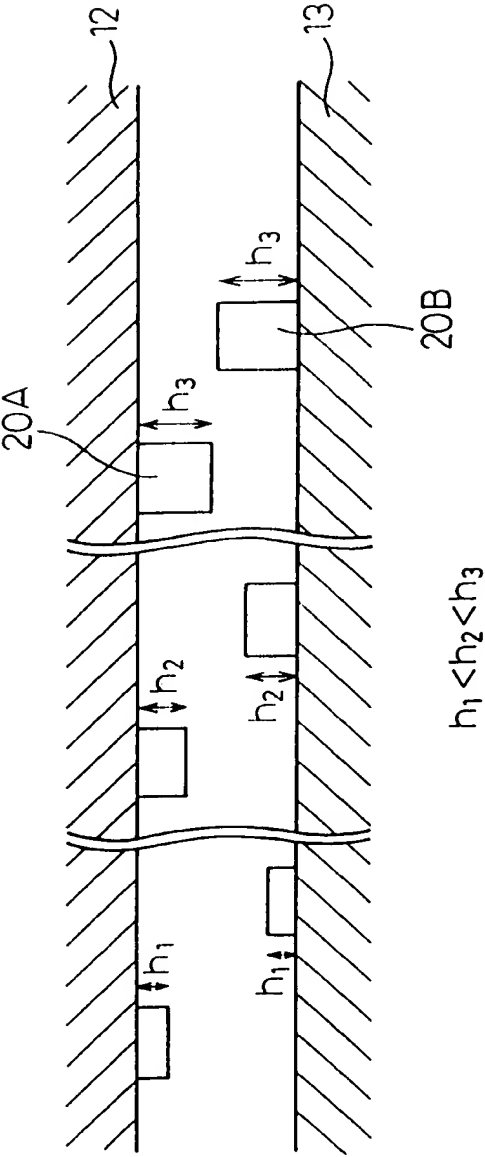


Fig.120

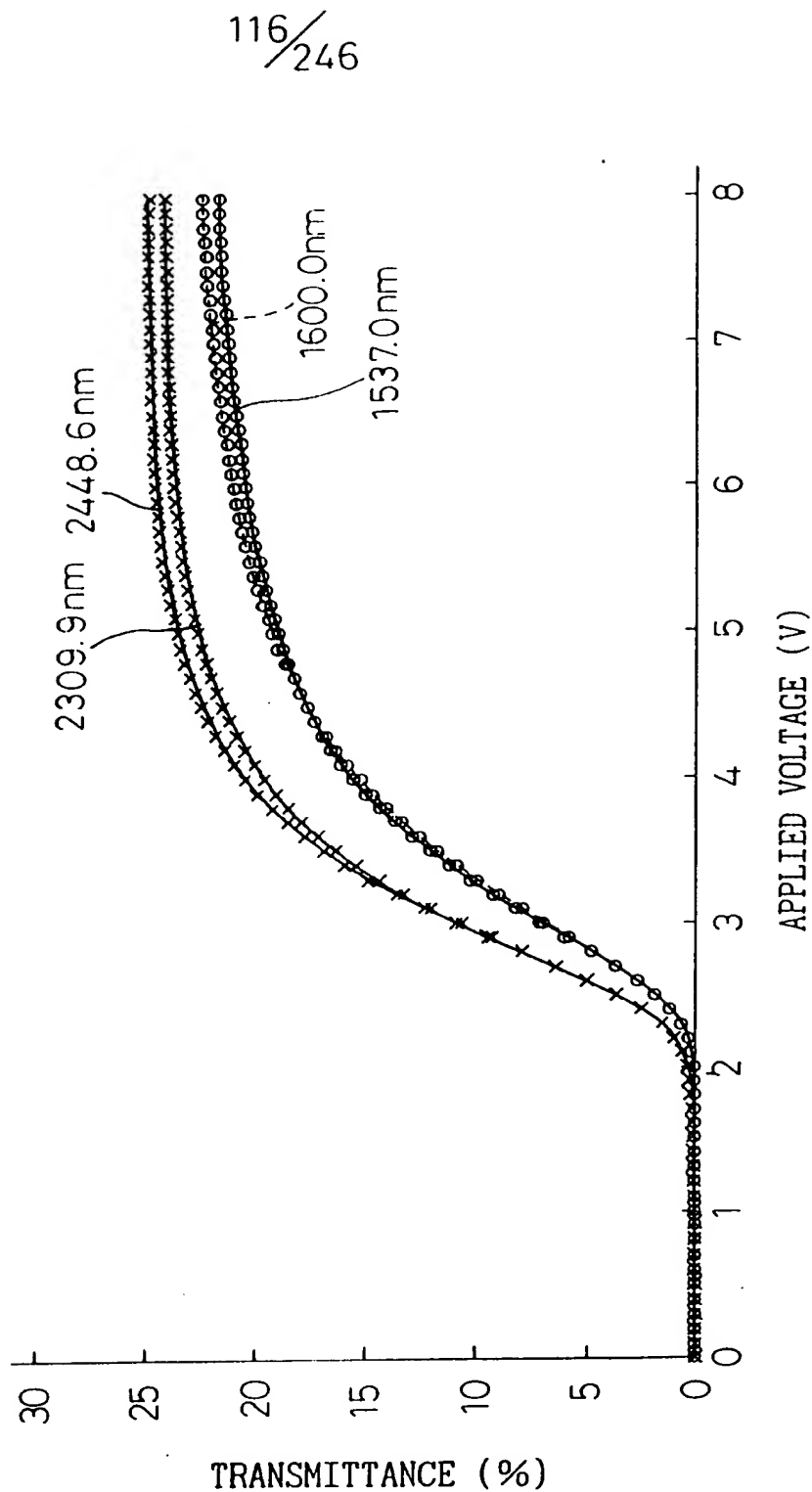


Fig.121

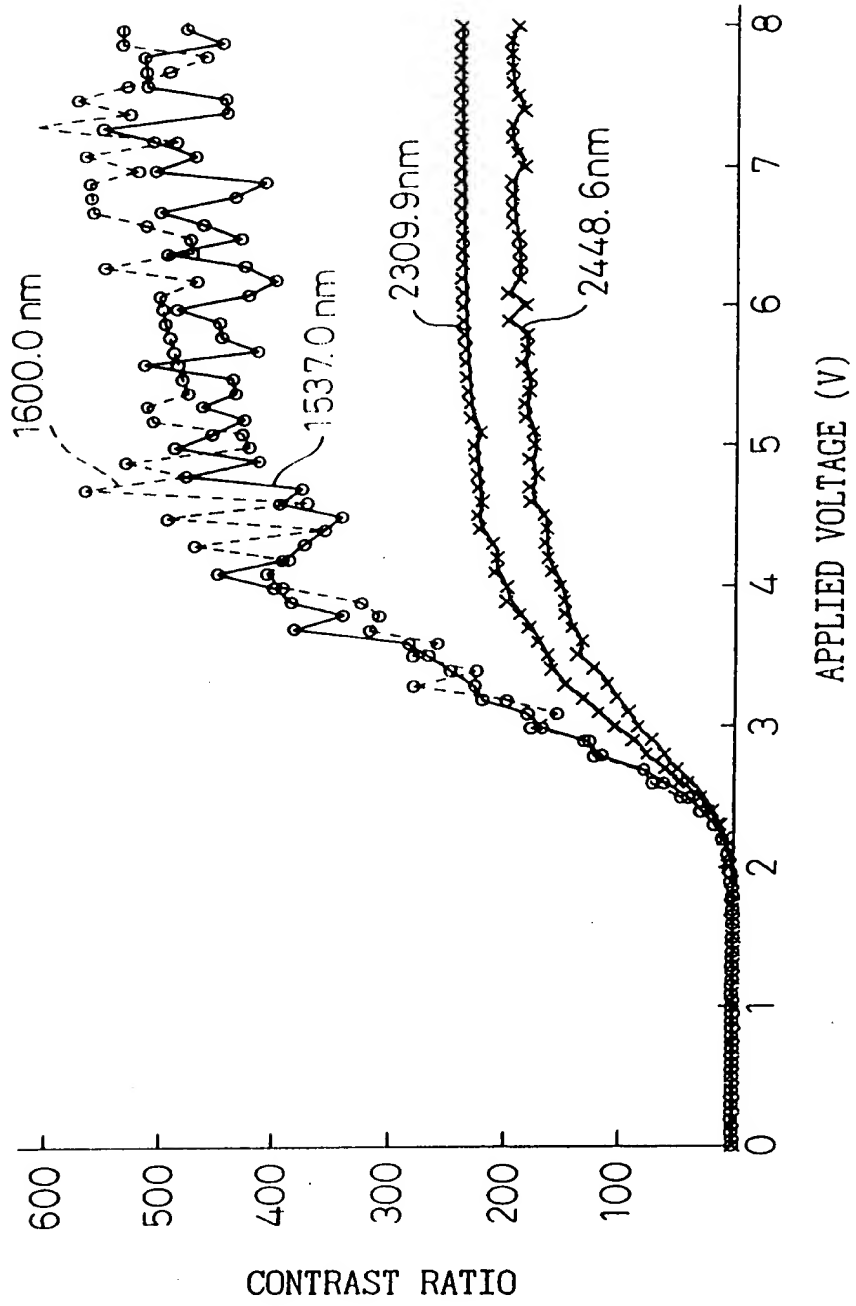
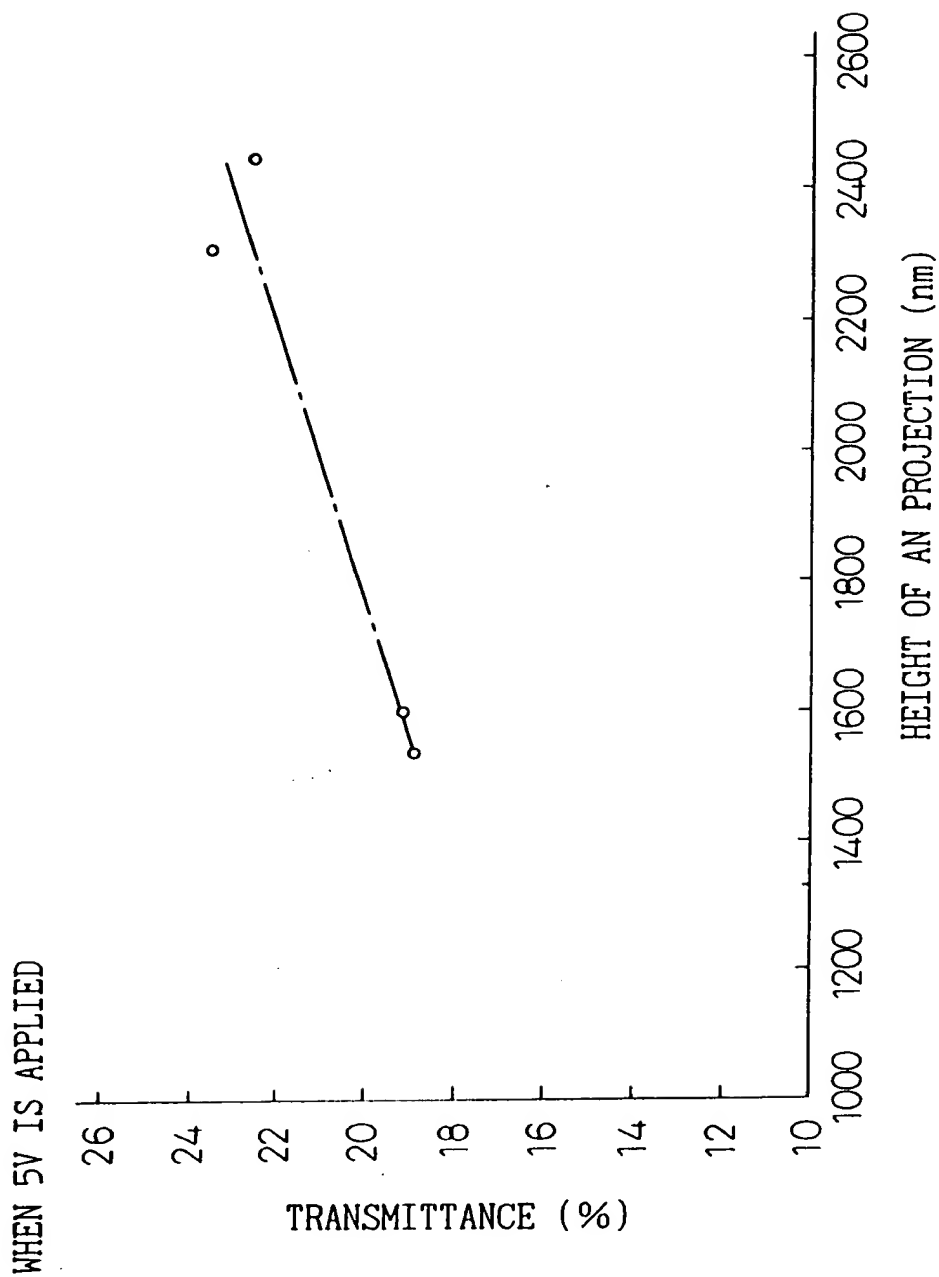


Fig. 122



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Fig. 123

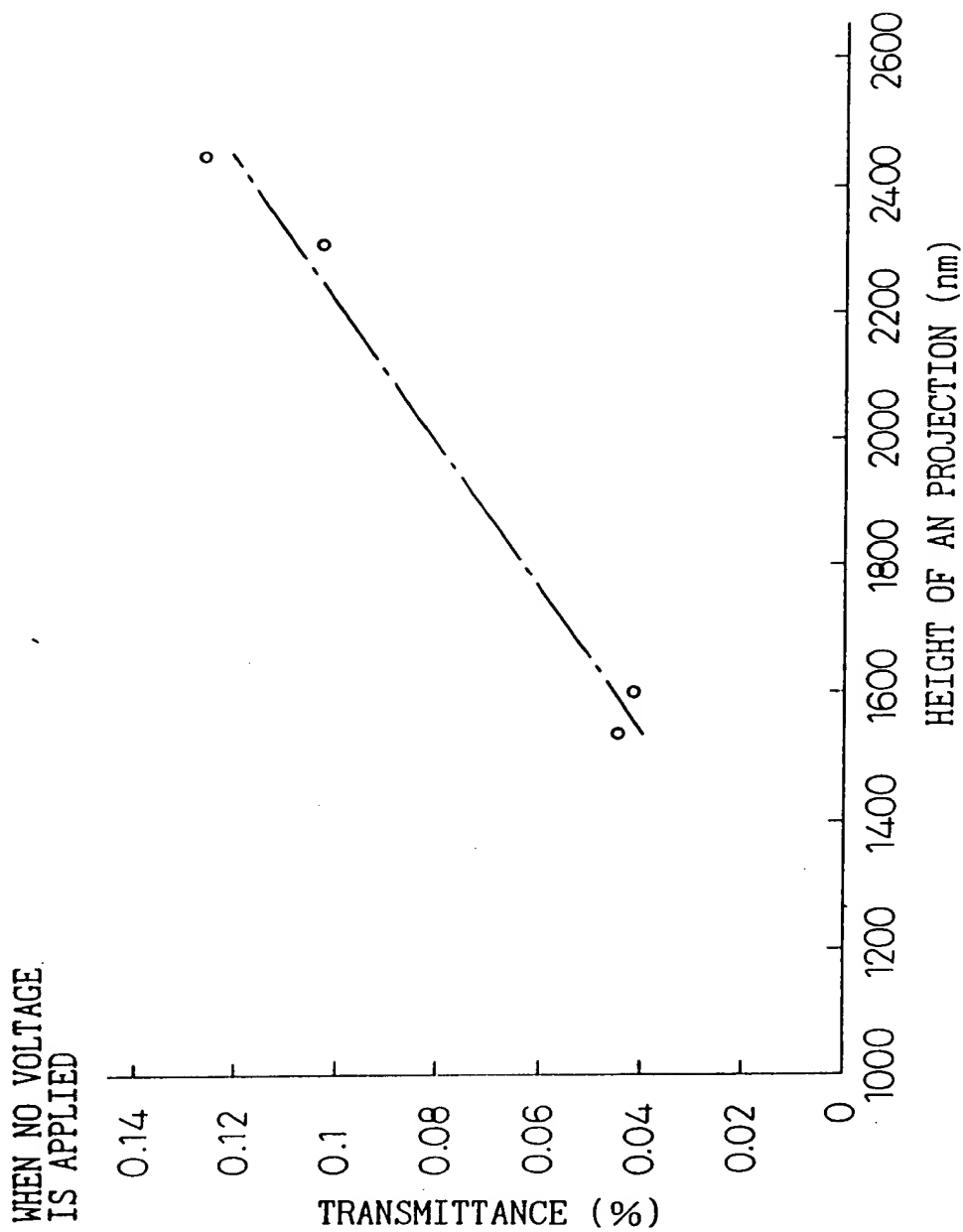


Fig. 124A

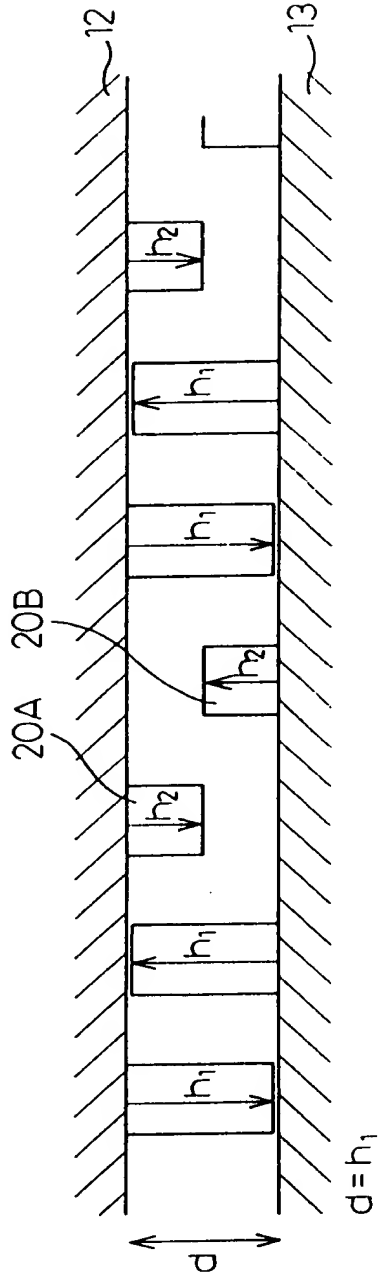


Fig. 124B

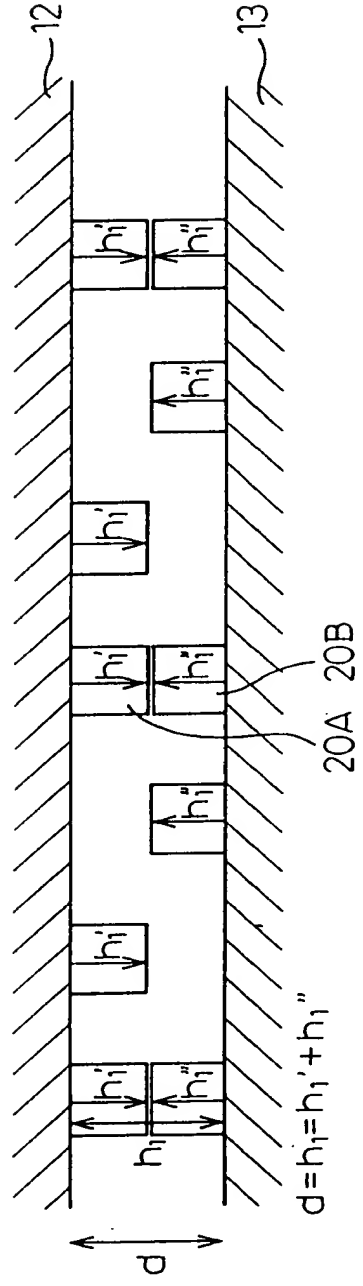


Fig.125A

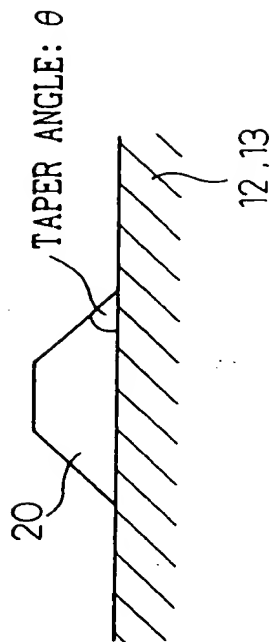


Fig.125B

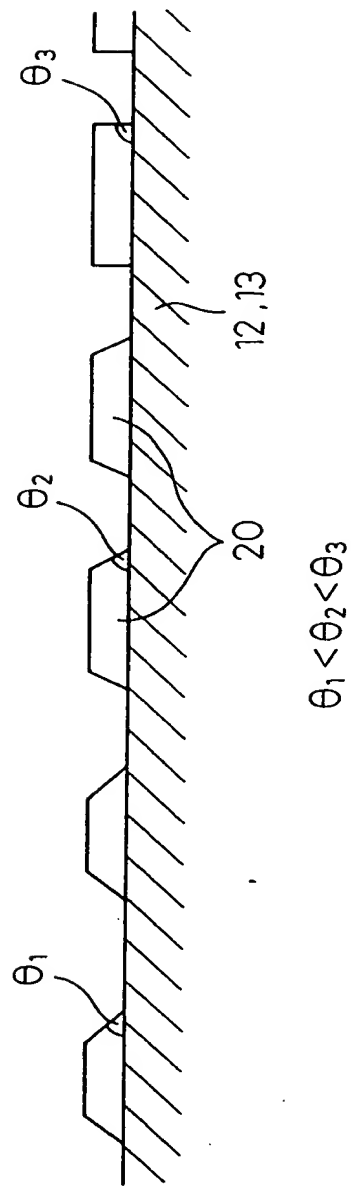
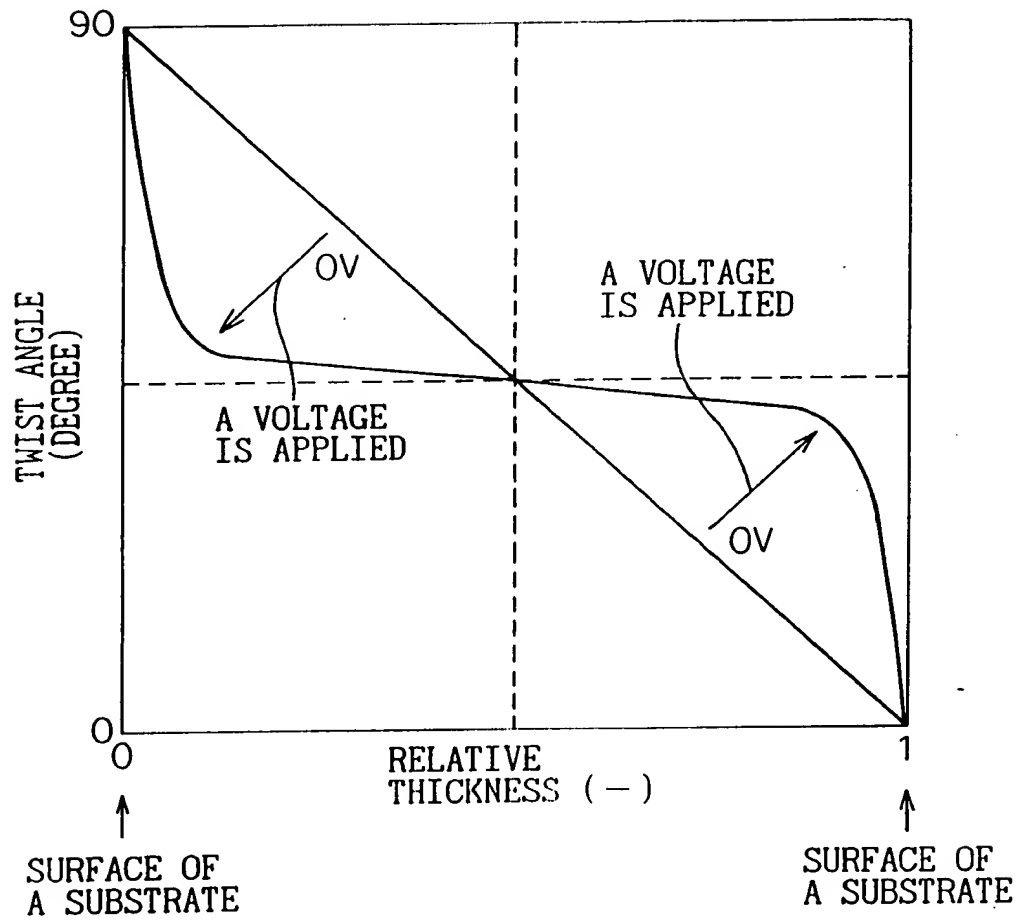


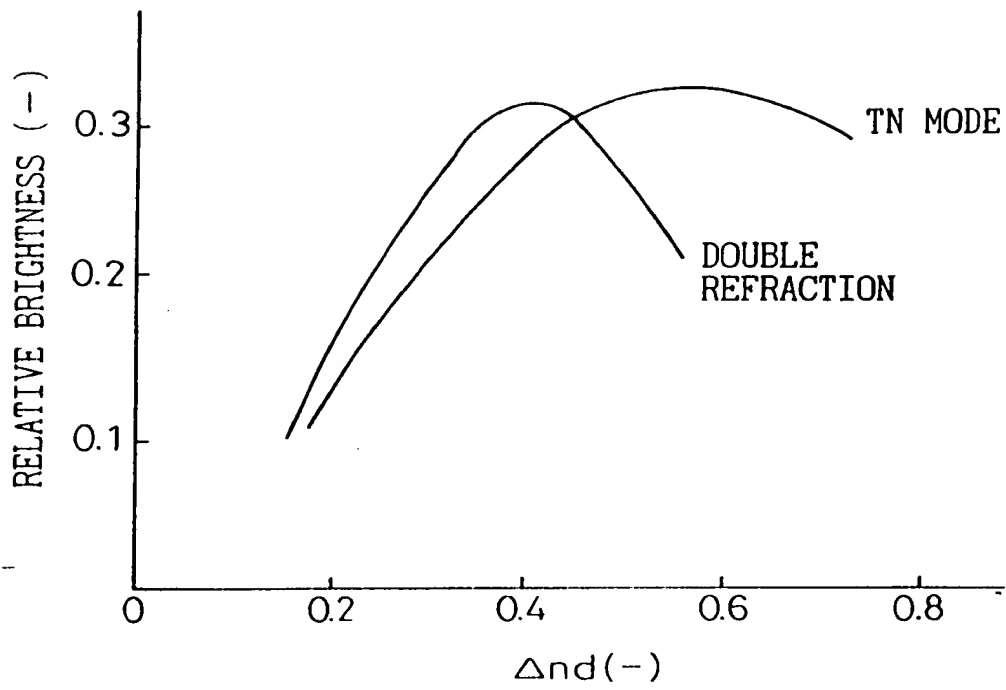
Fig .126



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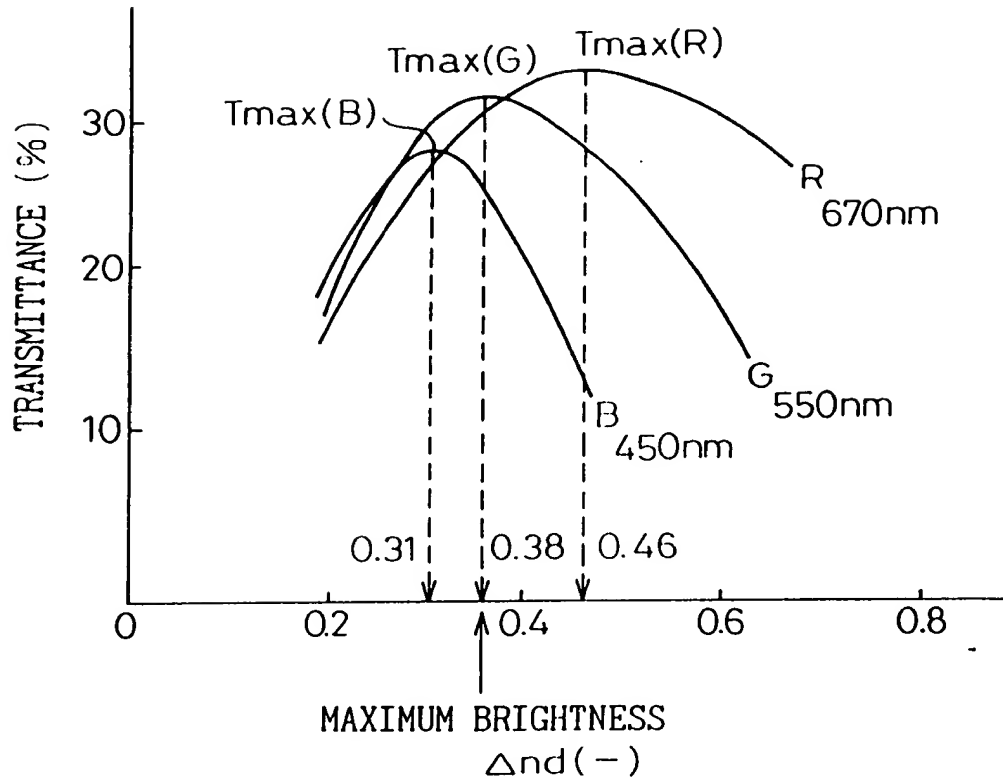
Fig. 127



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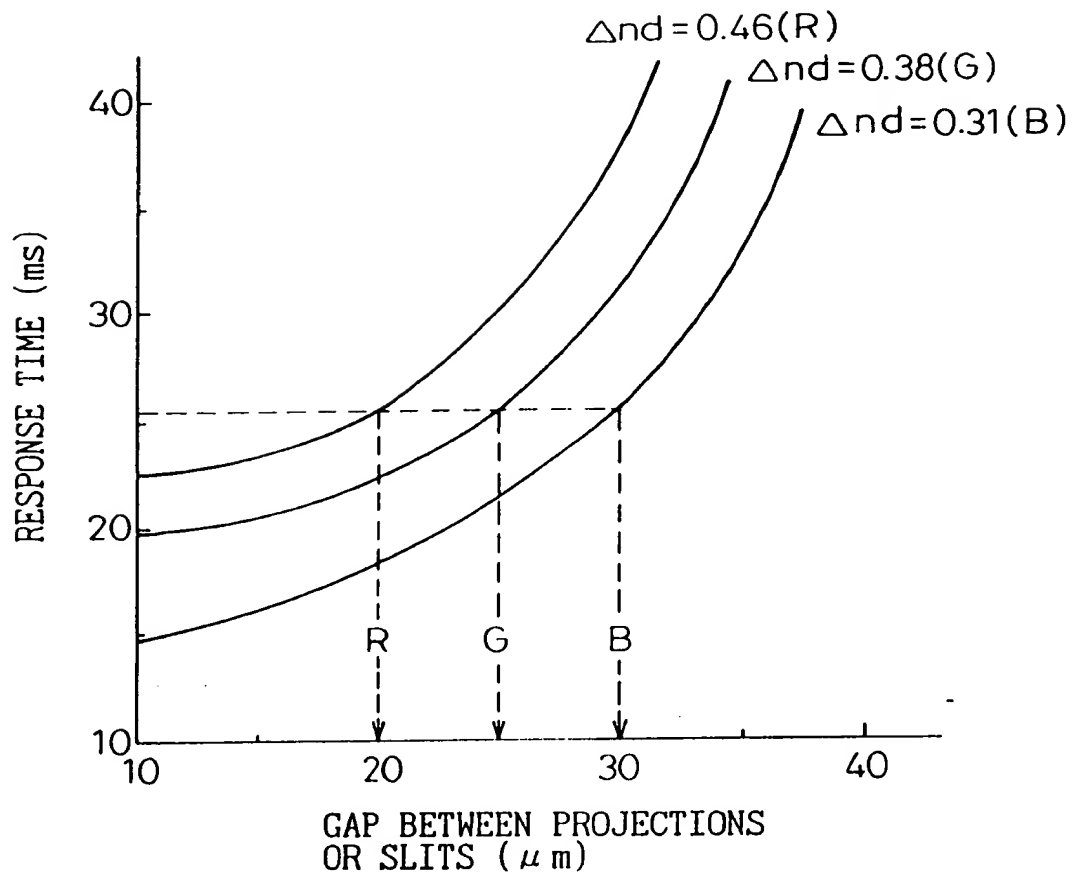
Fig .128



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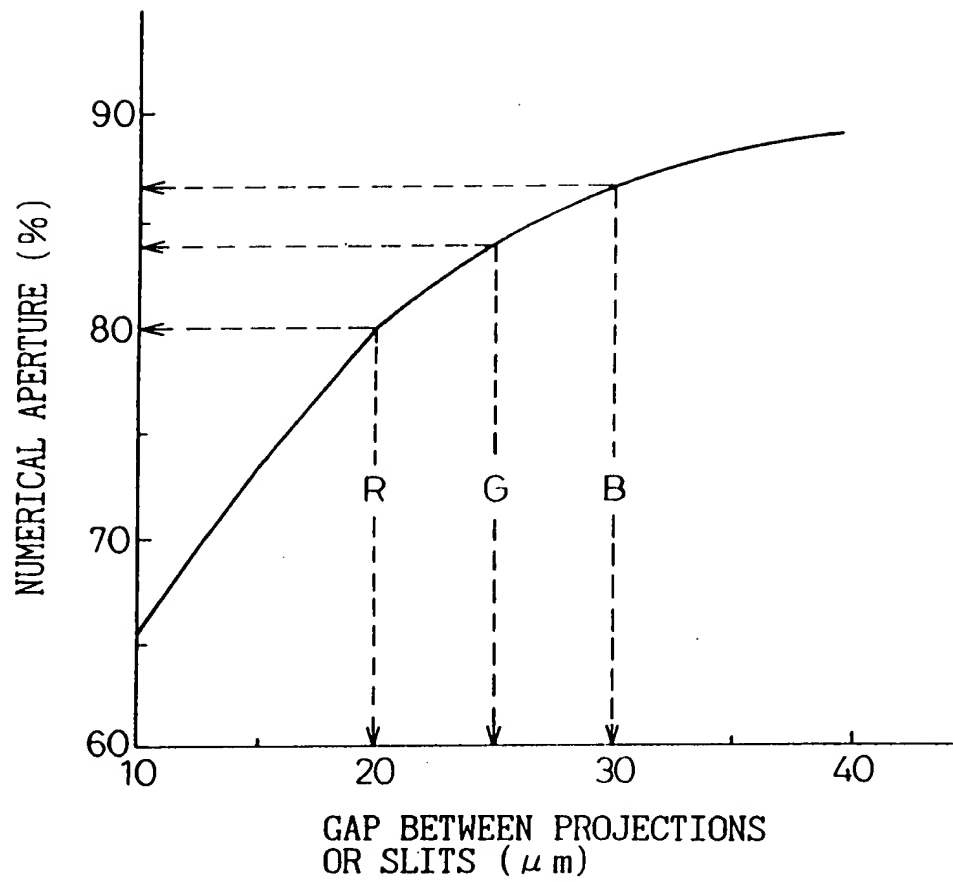
Fig. 129



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Fig .130



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Fig. 131

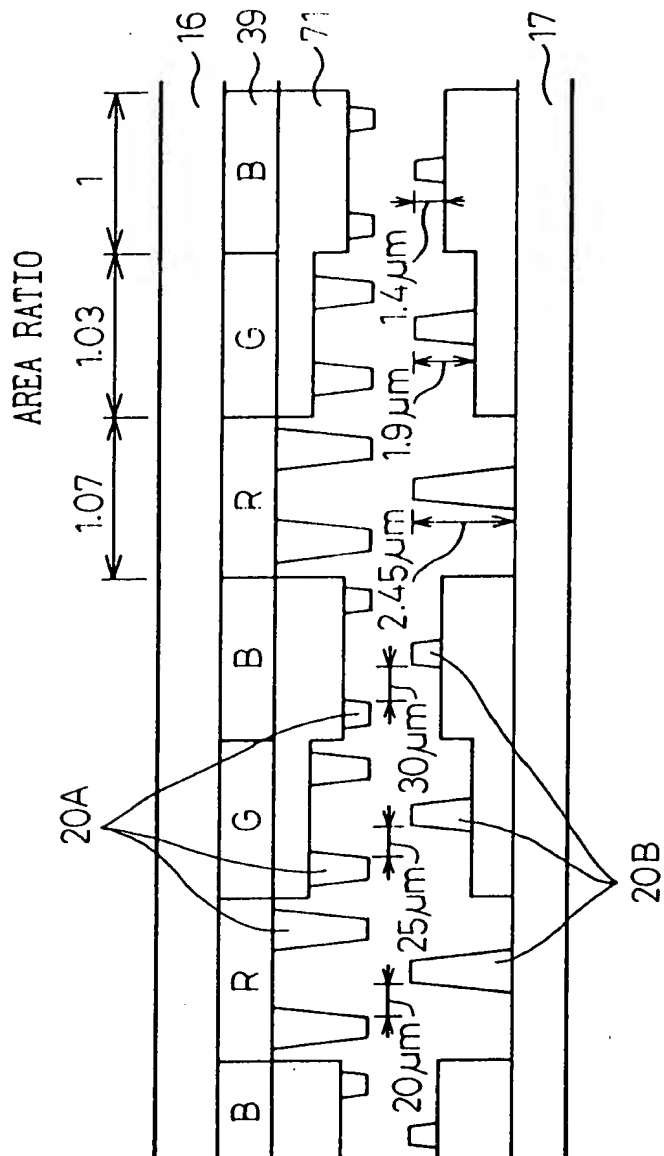


Fig.132

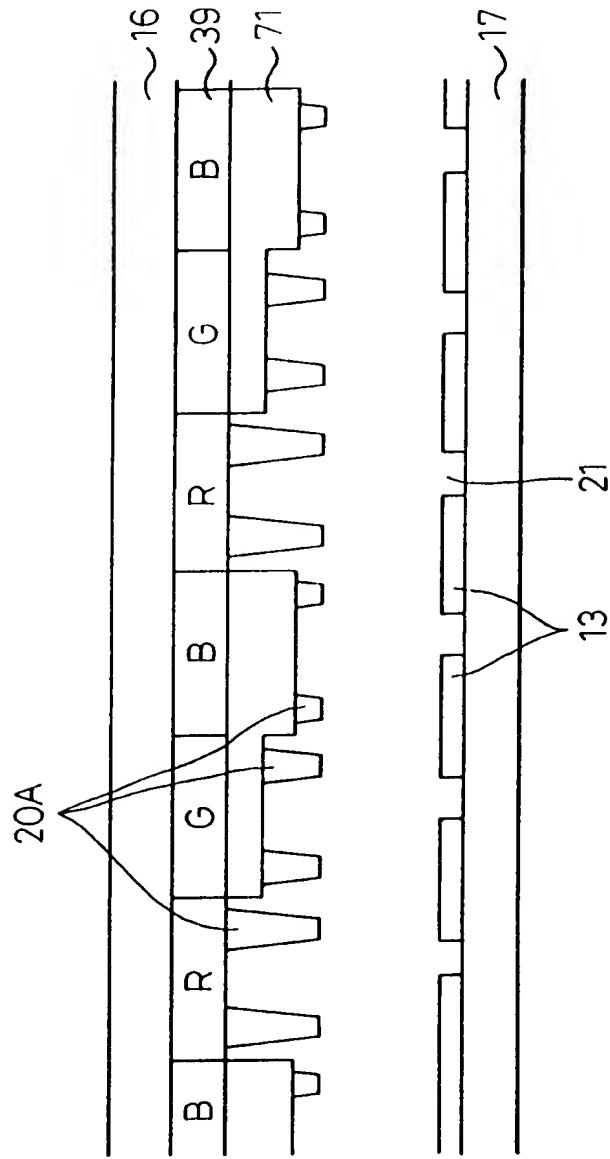


Fig. 133

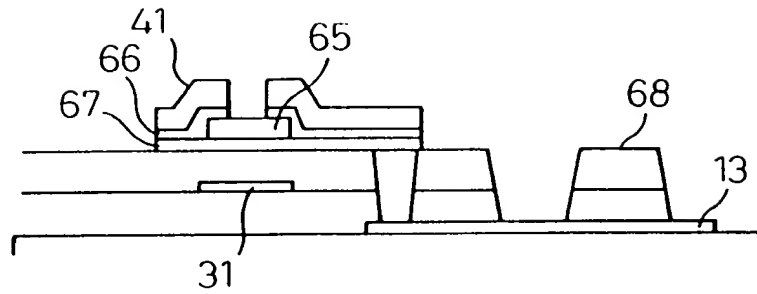


Fig. 134A

Fig. 134B

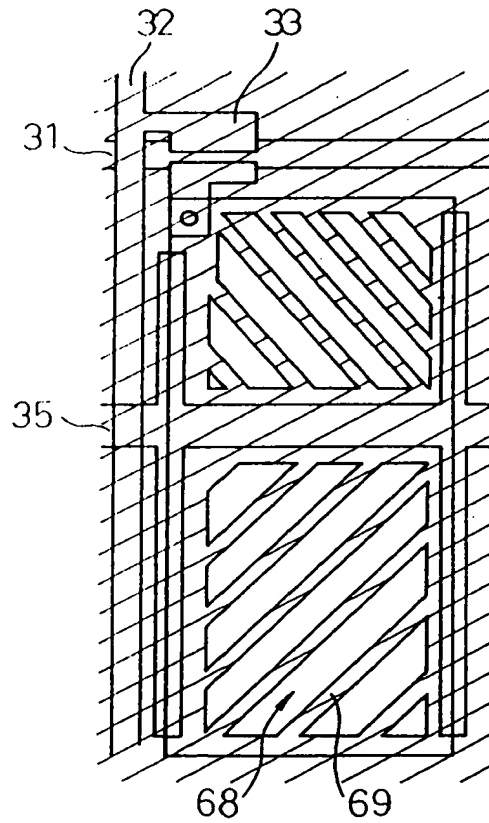
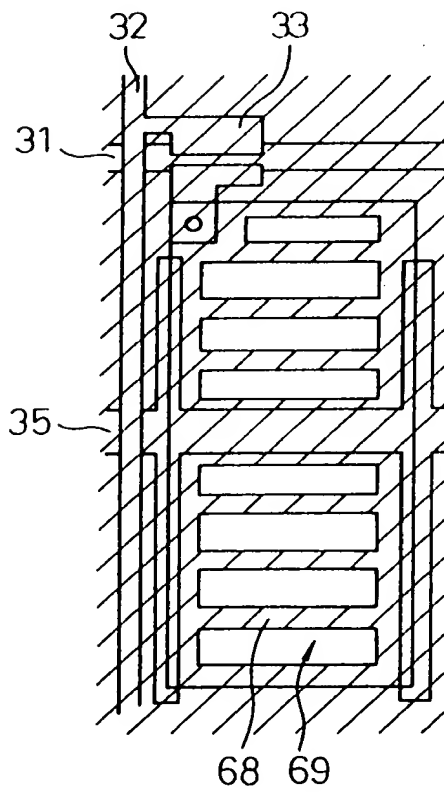


Fig.135

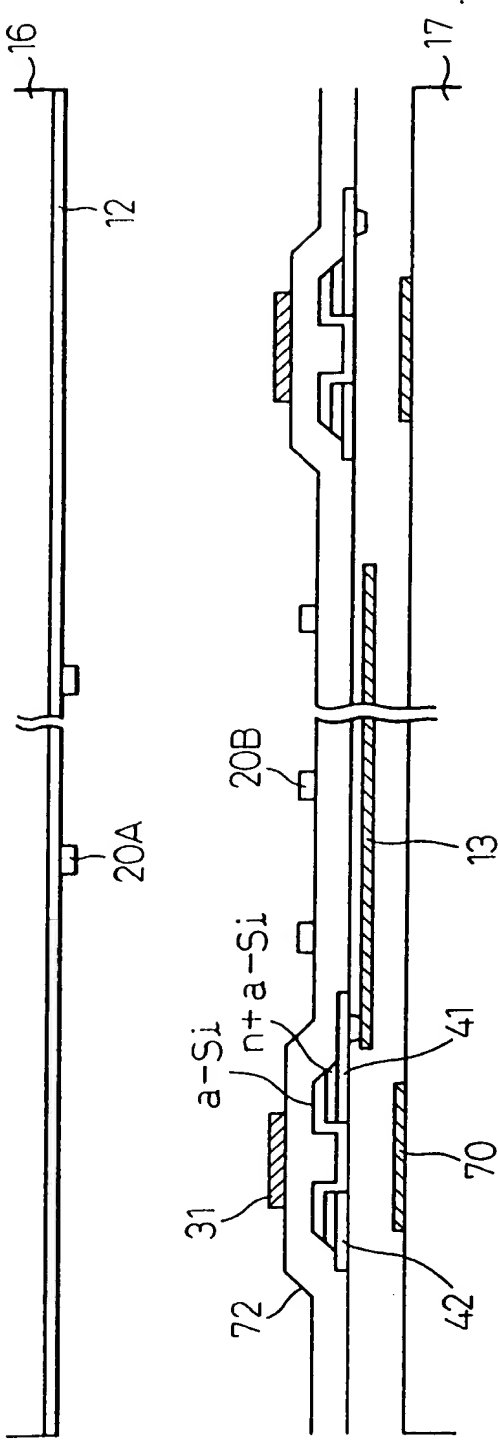
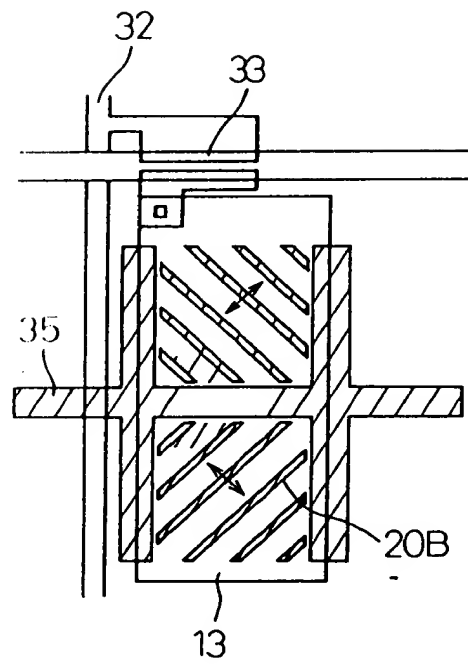
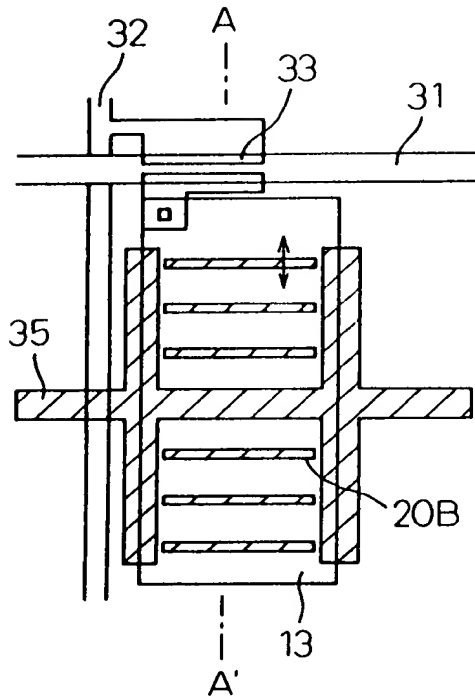


Fig.136A

Fig.136B



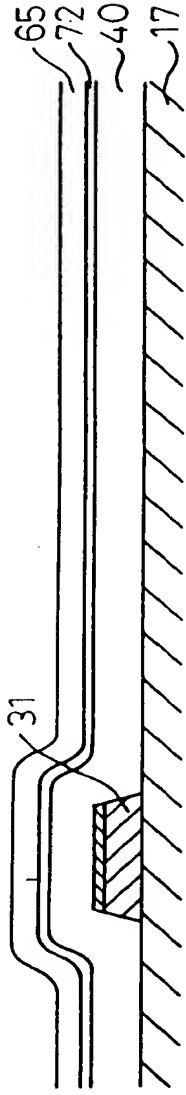


Fig. 137A

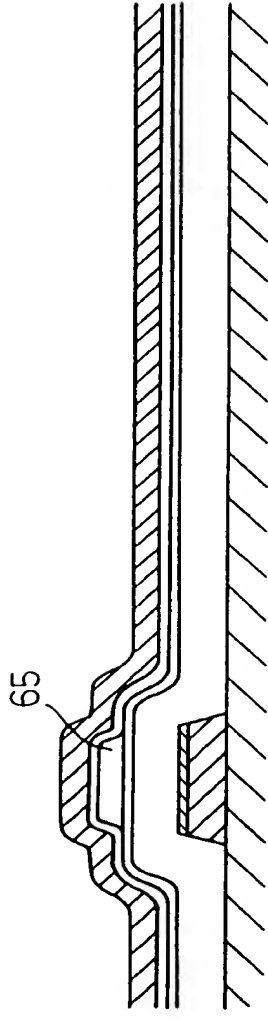


Fig. 137B

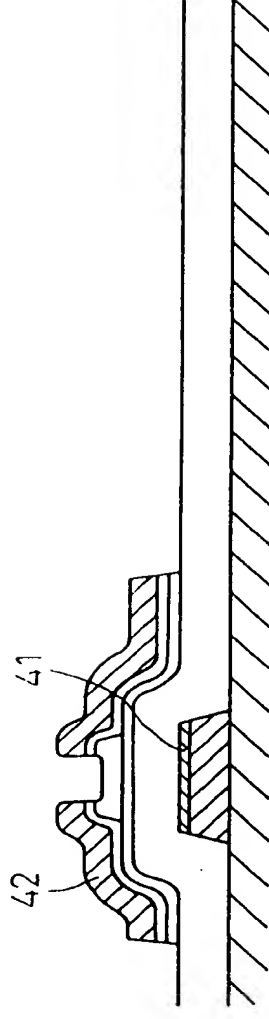


Fig. 137C

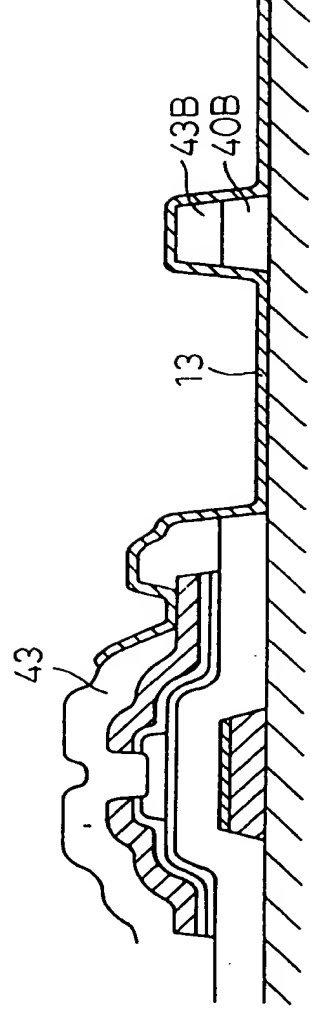


Fig. 137D

Fig. 138

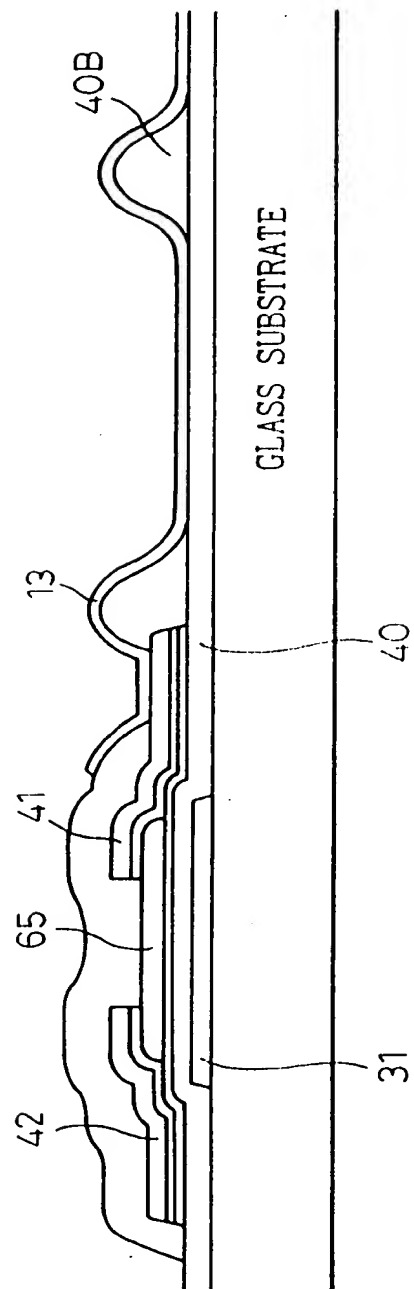


Fig. 139A

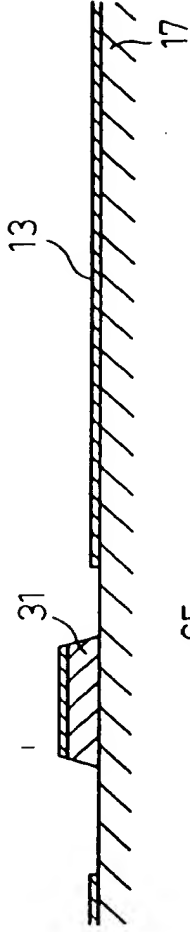


Fig. 139B

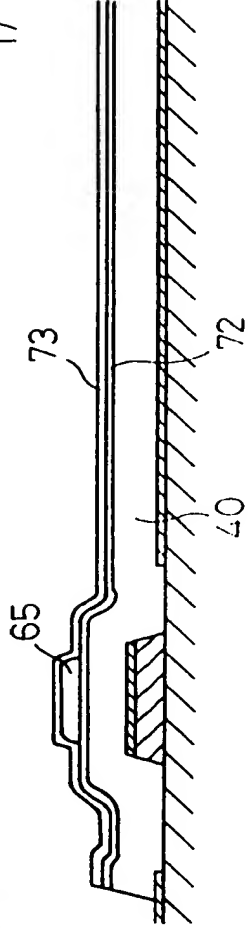


Fig. 139C

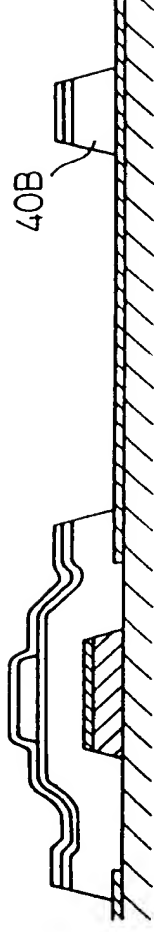


Fig. 139D

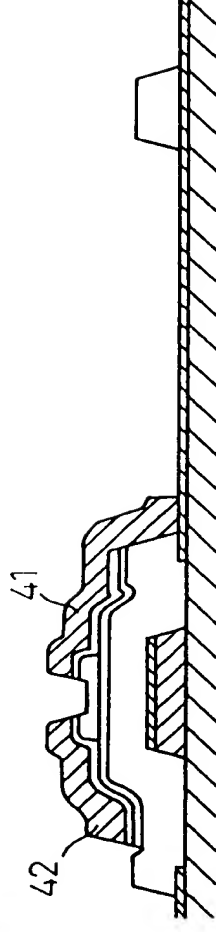
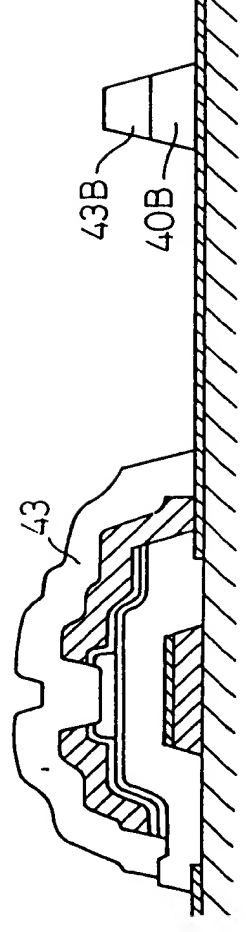


Fig. 139E



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Fig.140A

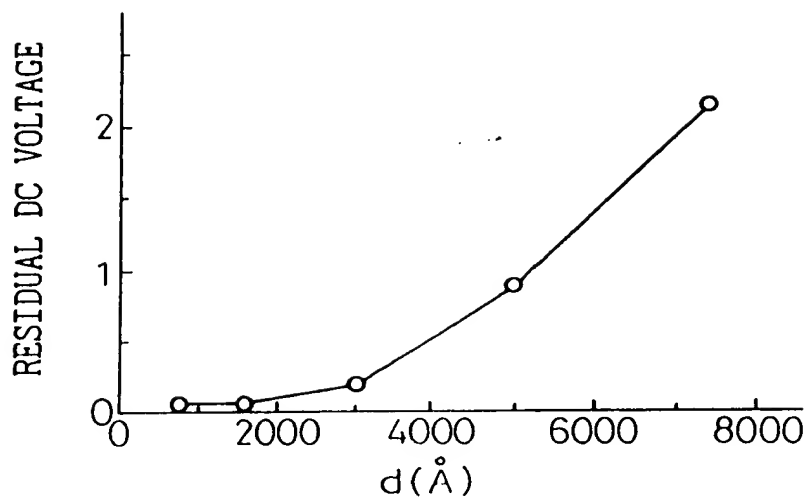
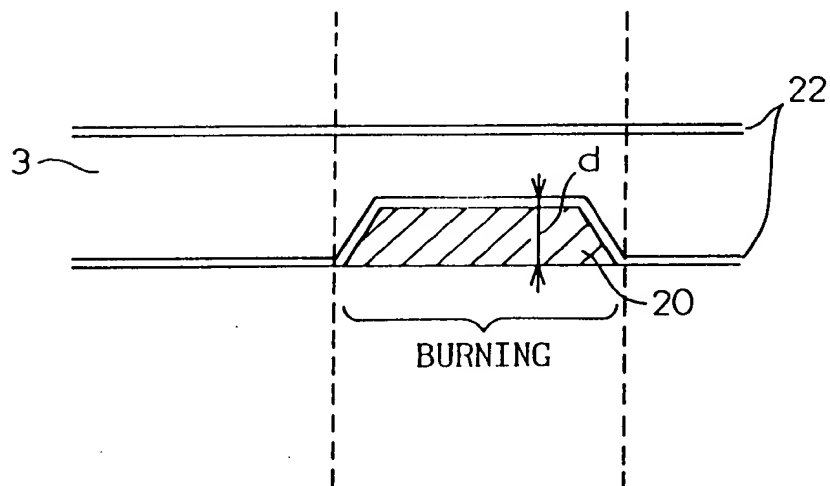


Fig.140B



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Fig.141A

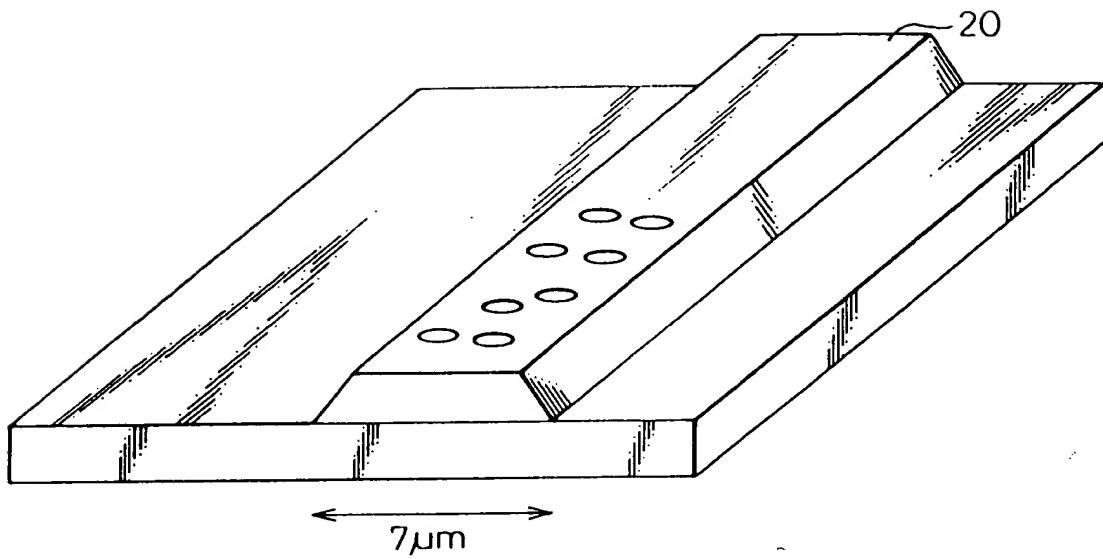
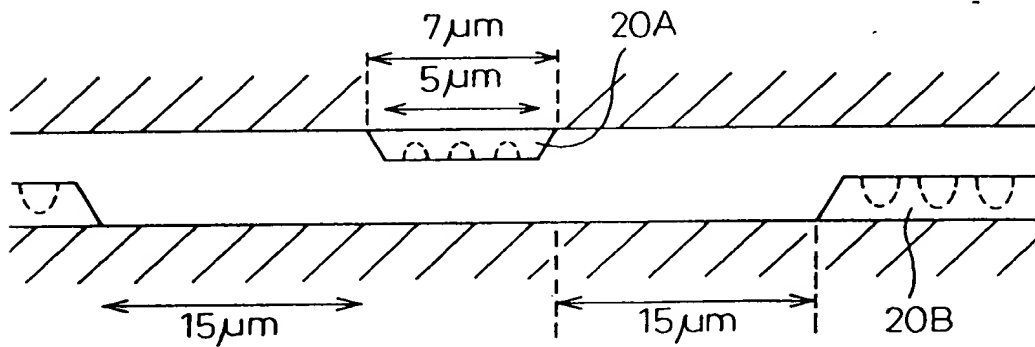


Fig.141B



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Fig.142A

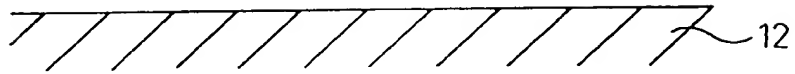


Fig.142B

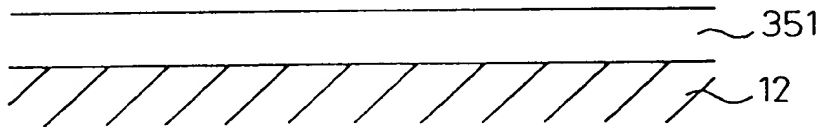


Fig.142C

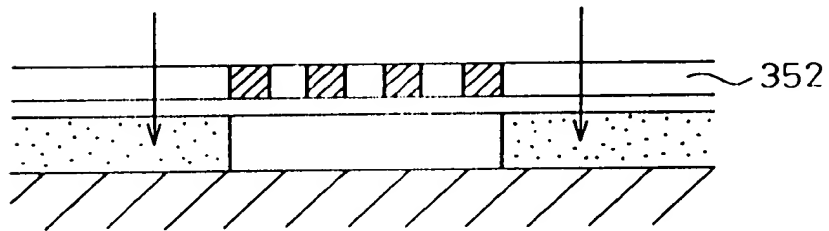


Fig.142D

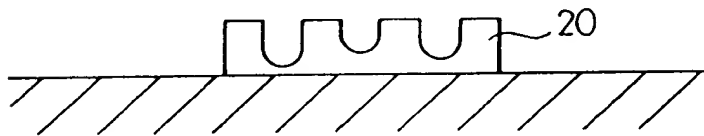
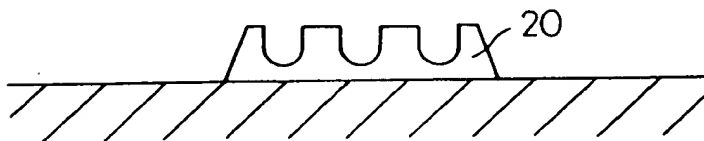
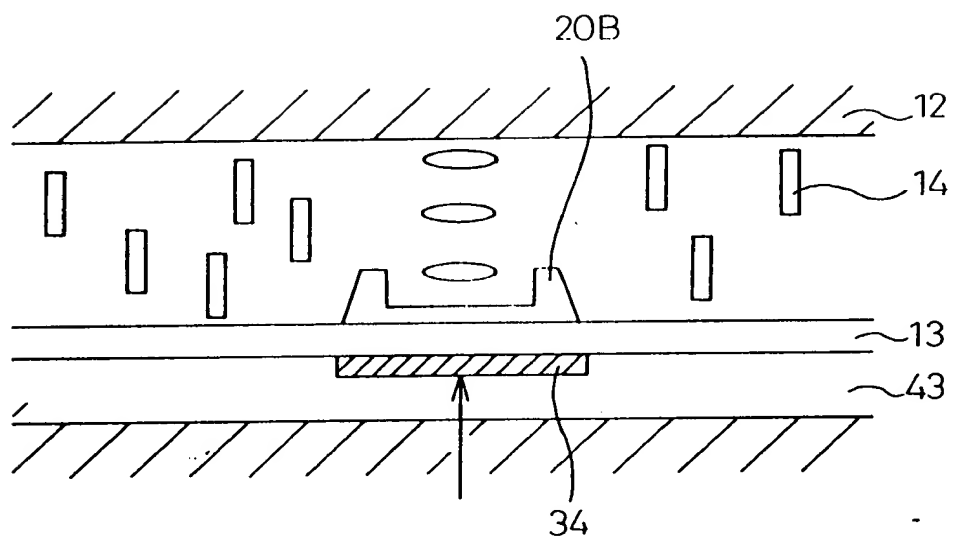


Fig.142E



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Fig.143



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Fig. 144A

BEFORE BAKING

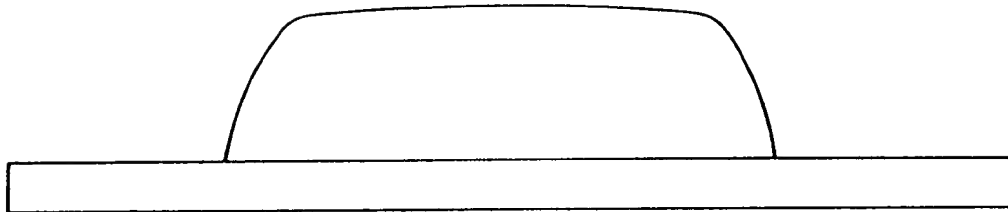
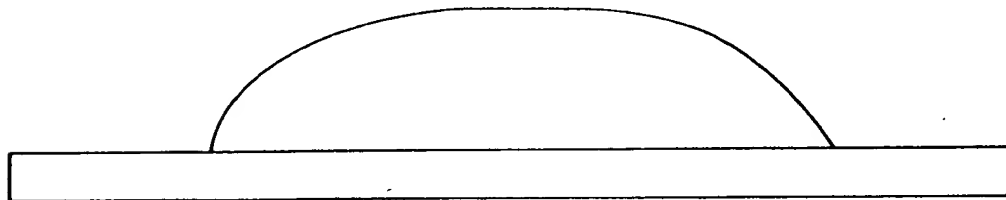


Fig. 144B

AFTER BAKING



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Fig.145A NO BAKING



Fig.145B 120°C

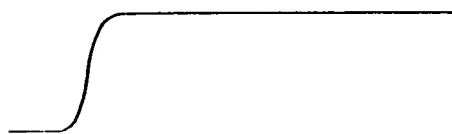


Fig.145C 130°C

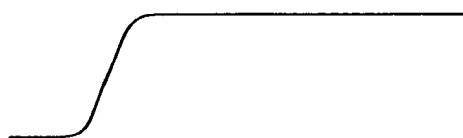
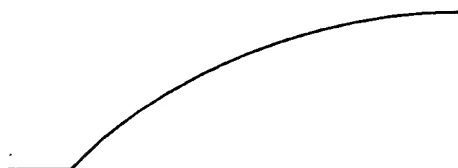


Fig.145D 140°C



Fig.145E 150°C



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Fig.146A

2 μ m WIDTH

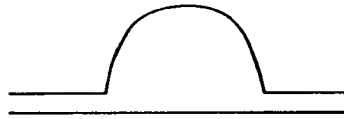


Fig.146B

5 μ m WIDTH

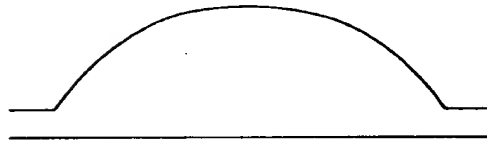
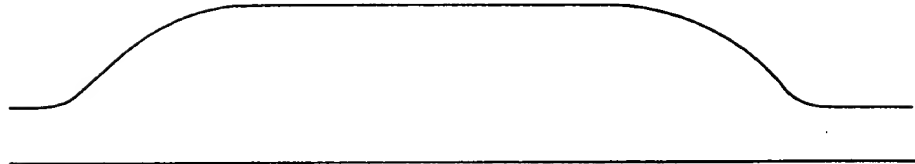


Fig.146C

10 μ m WIDTH



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Fig. 147A

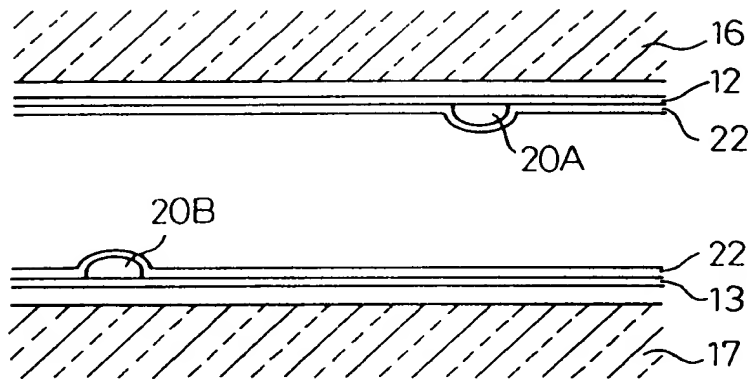
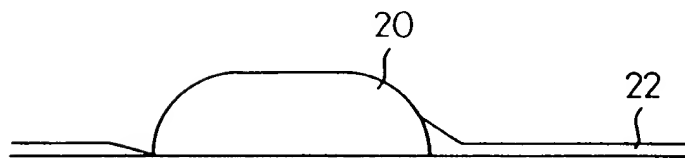


Fig. 147B



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Fig.148A

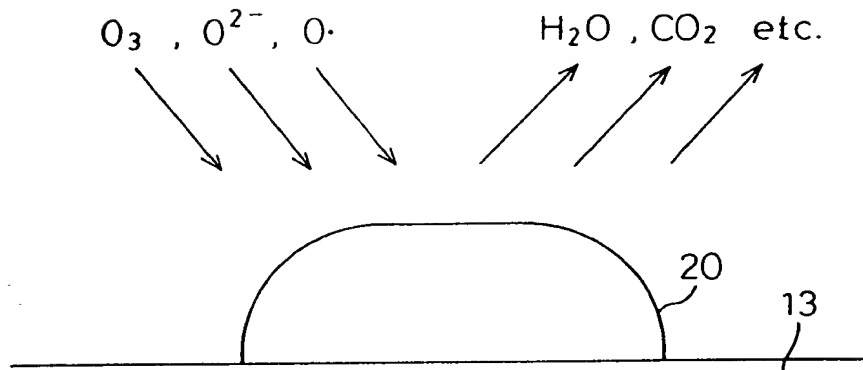


Fig.148B

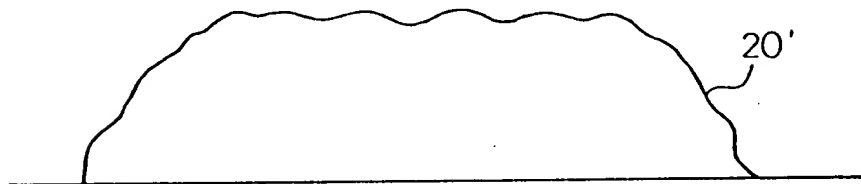
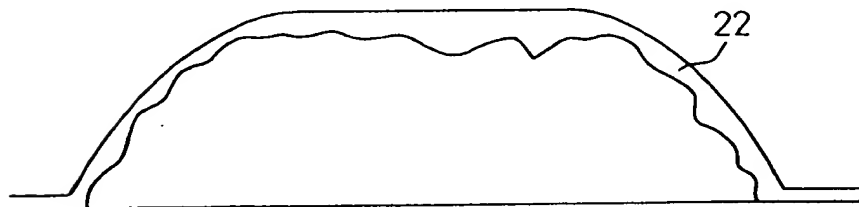


Fig.148C



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Fig.149A

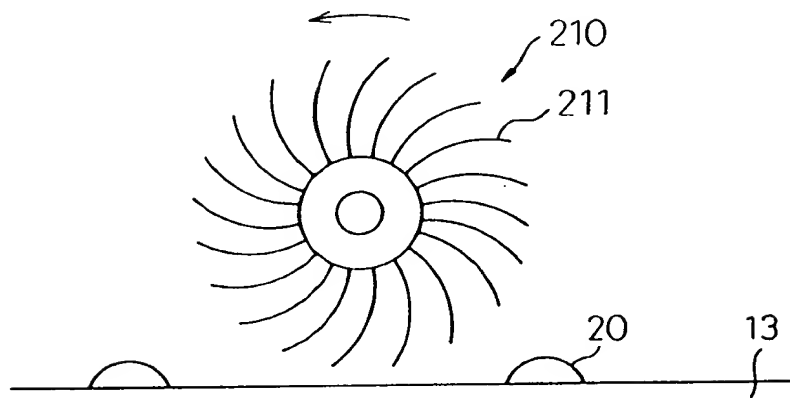
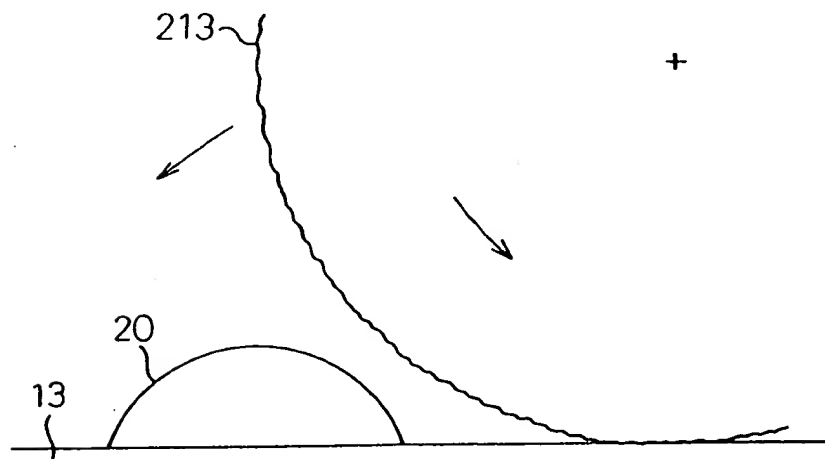


Fig.149B



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Fig. 150

ULTRA-VIOLET LIGHT



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Fig.151A

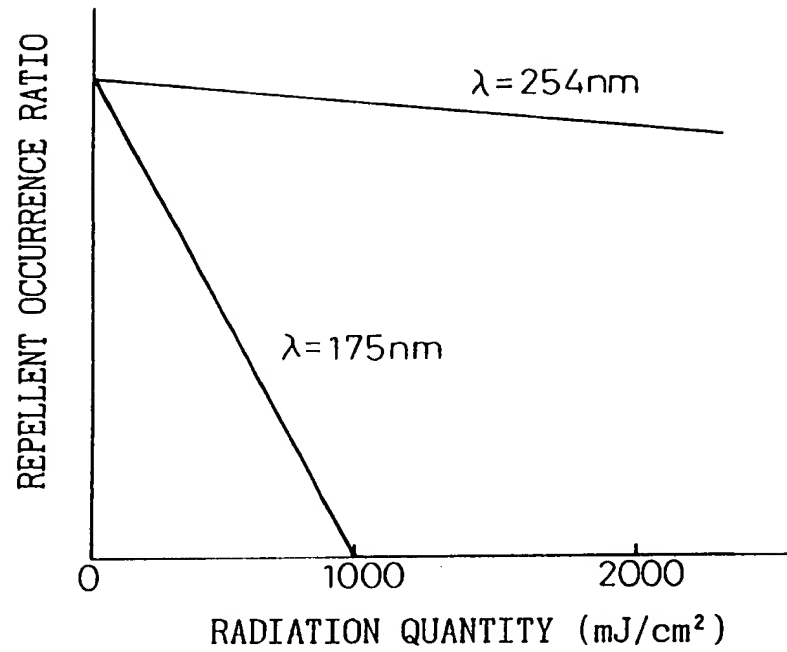
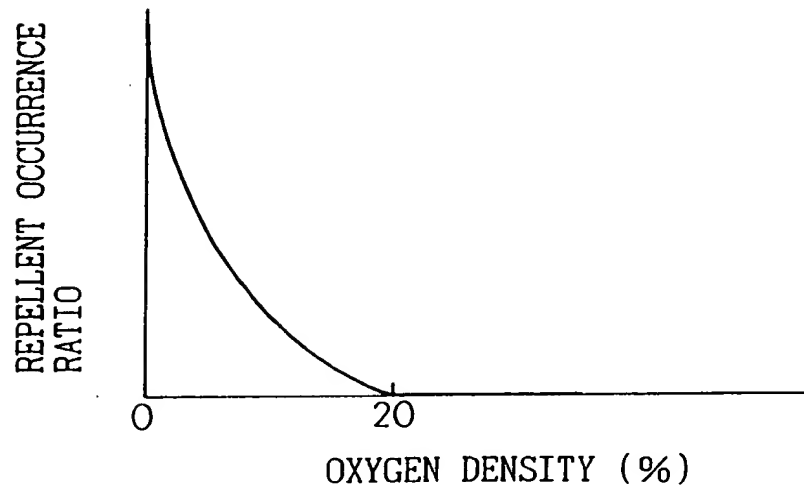


Fig.151B



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Fig.152A

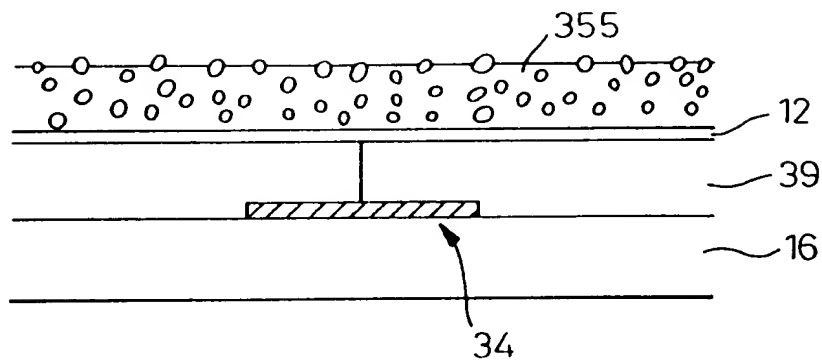


Fig.152B

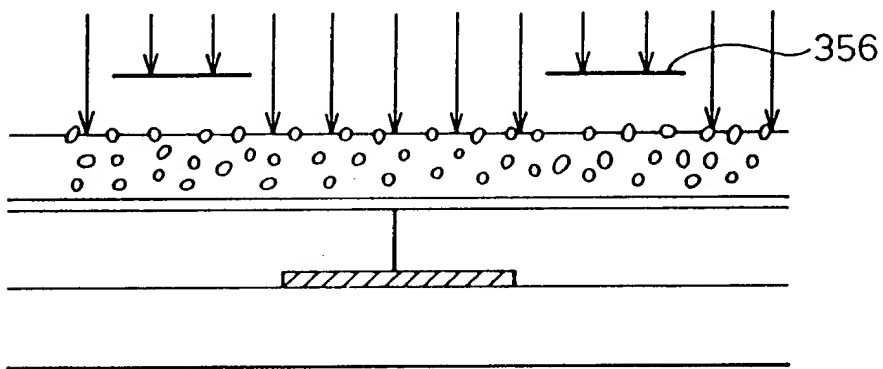
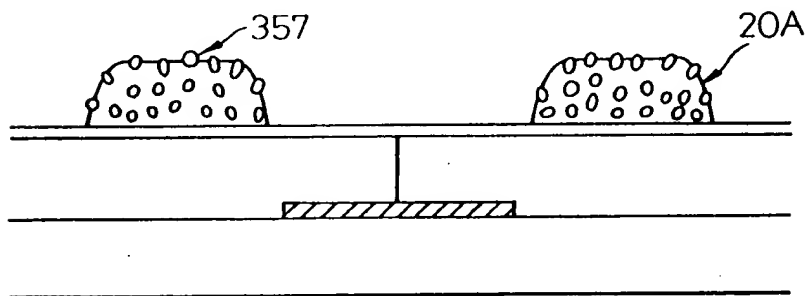


Fig.152C



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Fig.153A

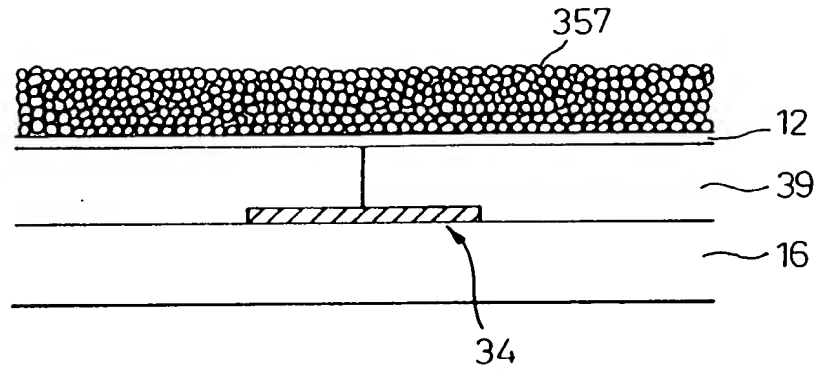


Fig.153B

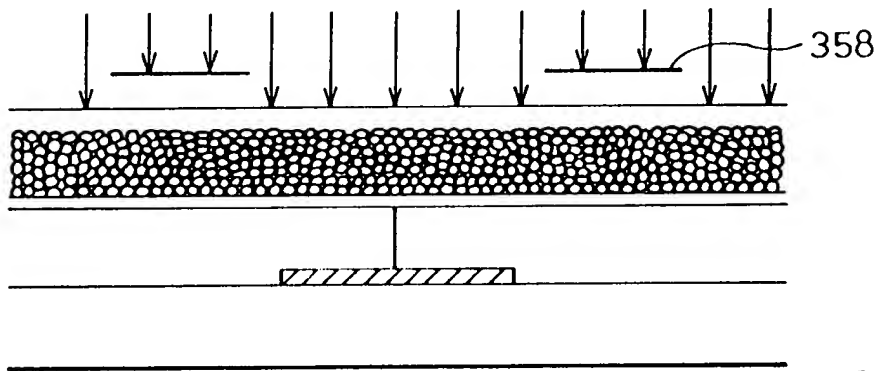
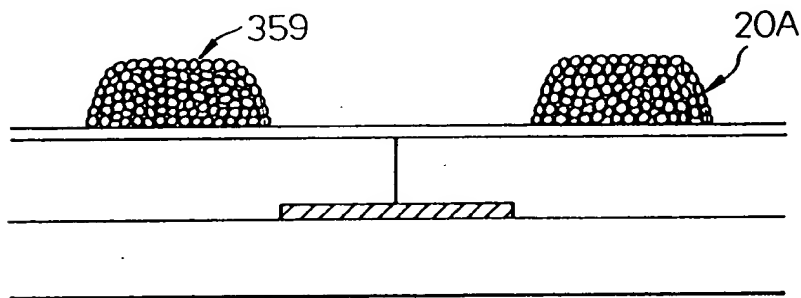


Fig.153C



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Fig.154A

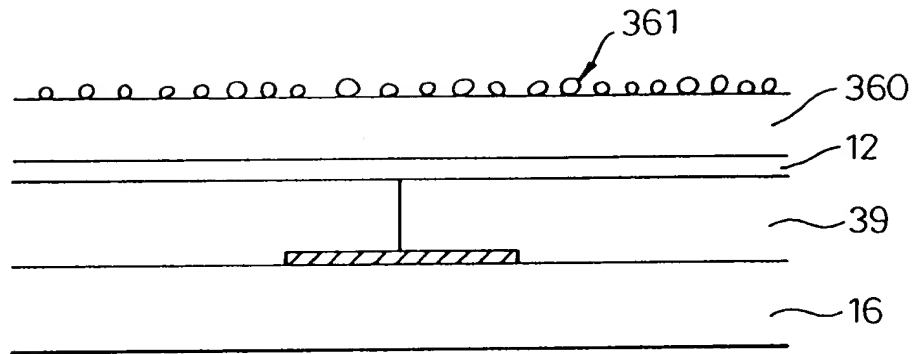
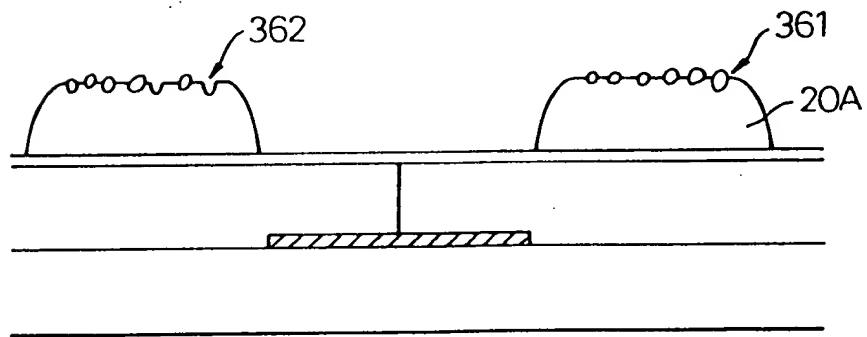


Fig.154B



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Fig.155A

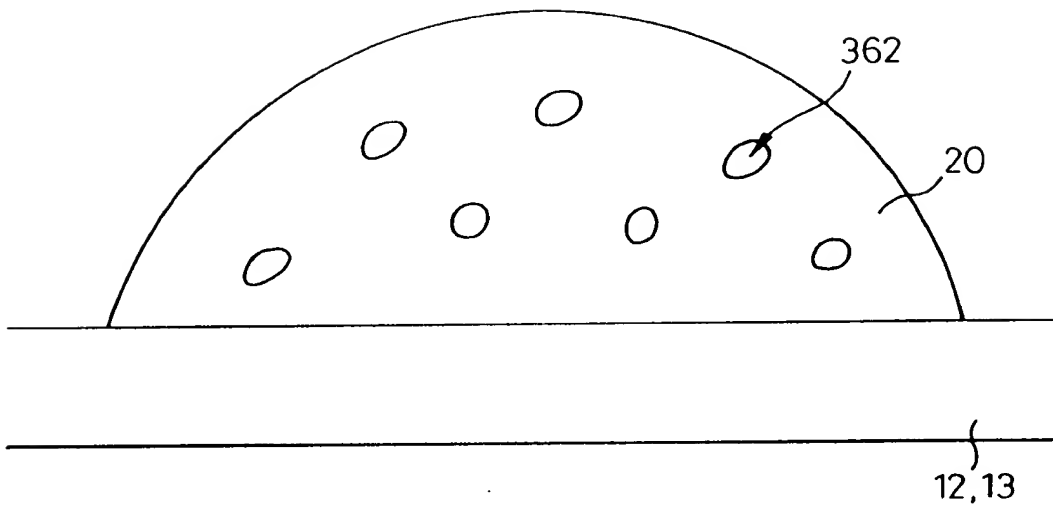


Fig.155B

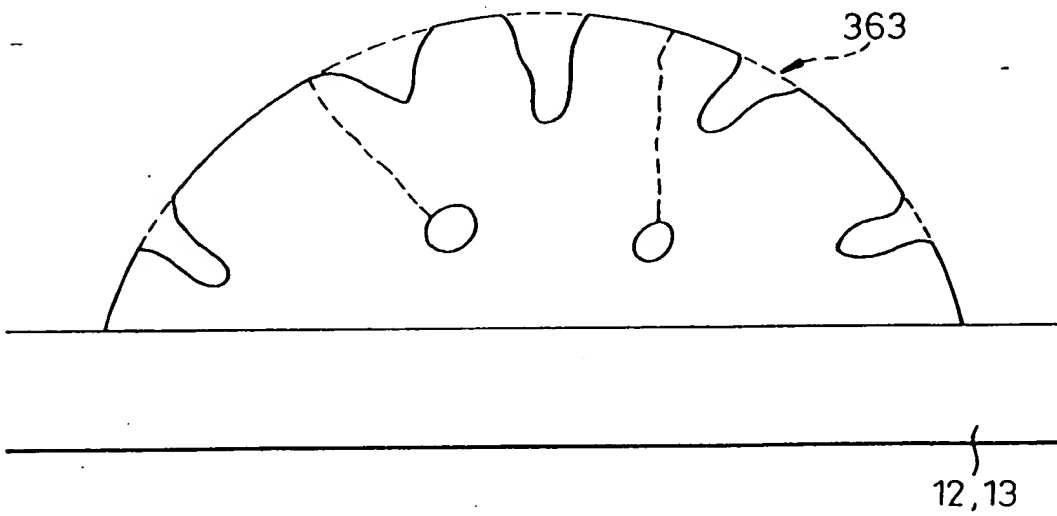
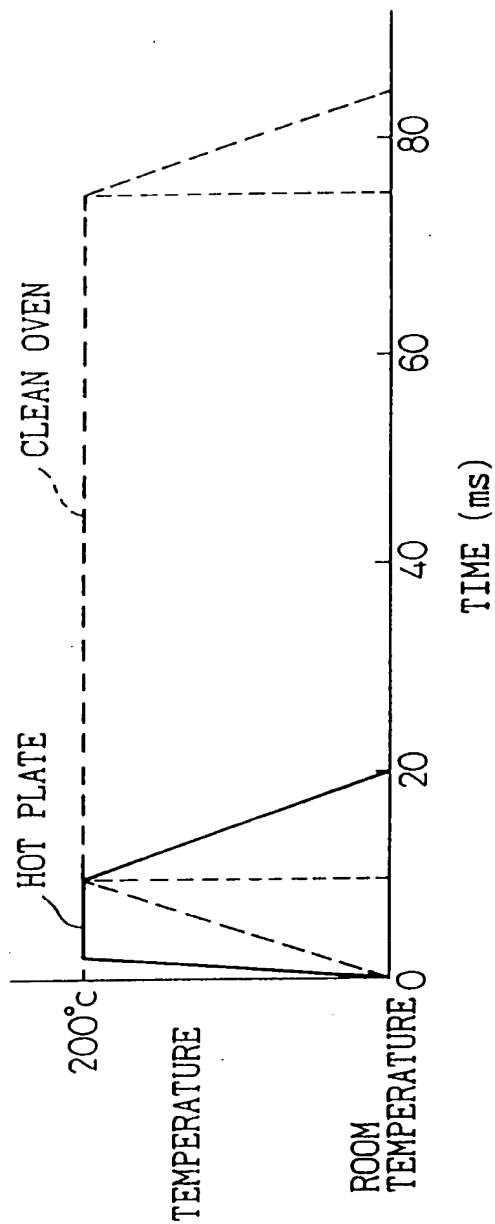


Fig.156



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Fig.157A

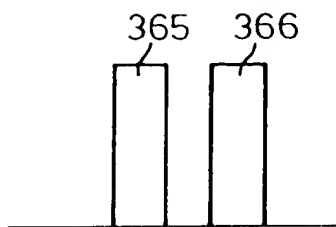


Fig.157B

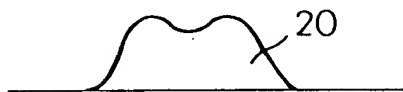


Fig.157C

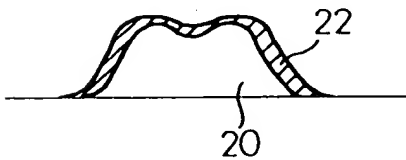


Fig.158

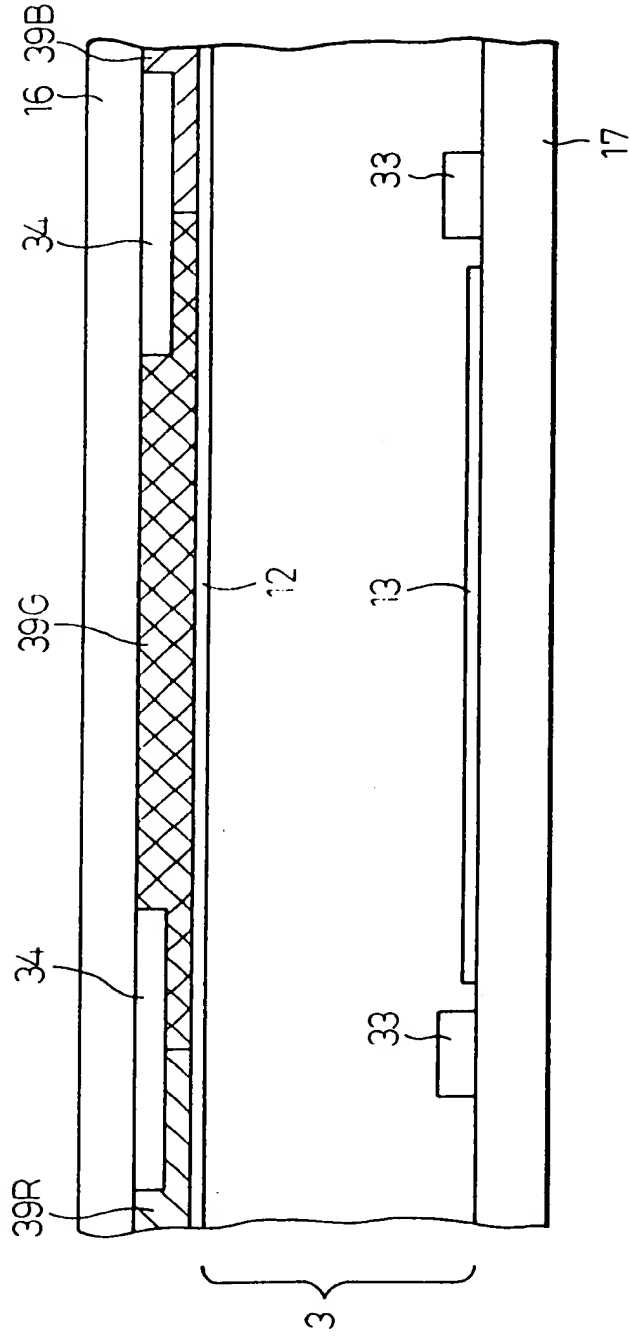


Fig.159

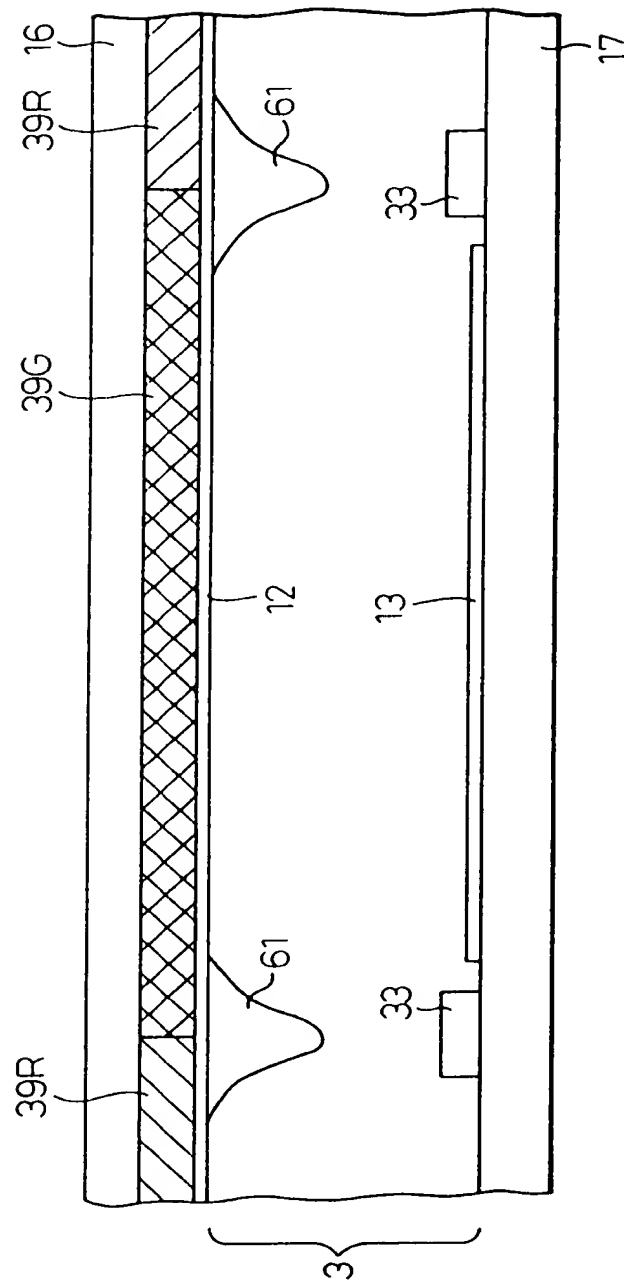
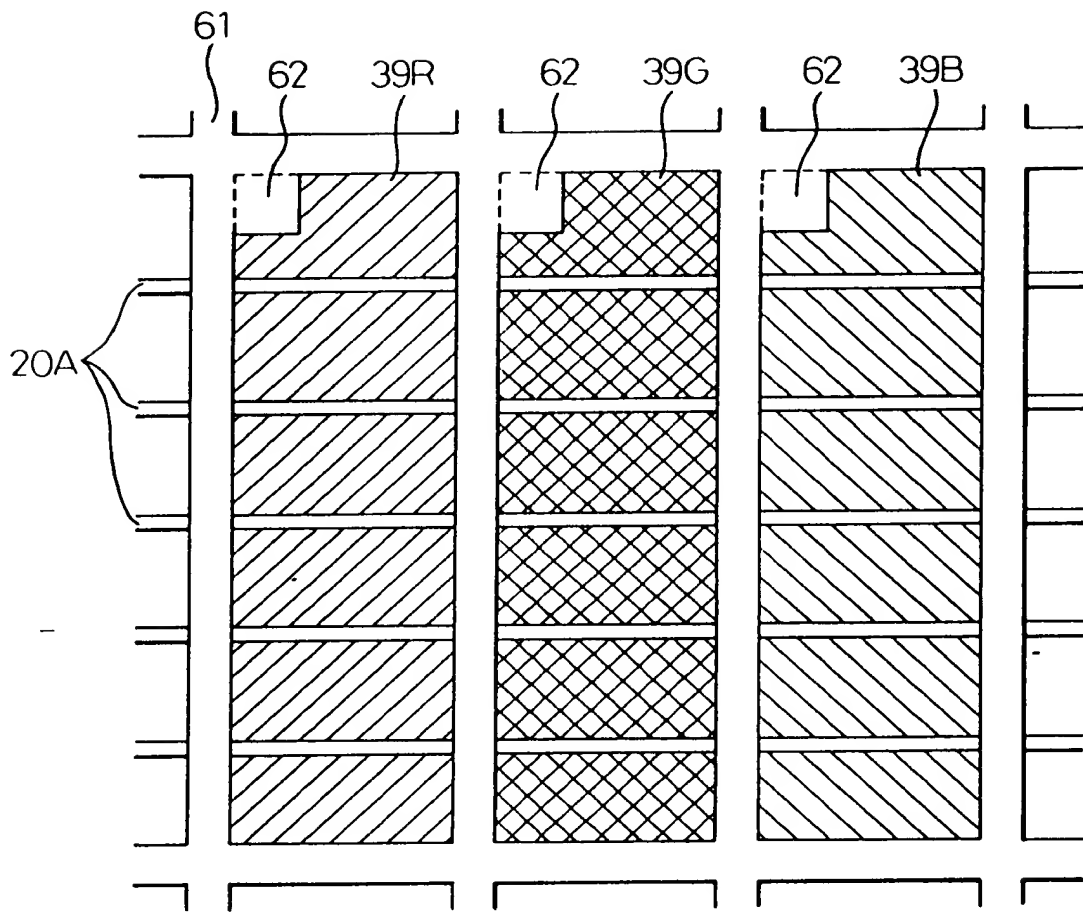


Fig. 160



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Fig.161

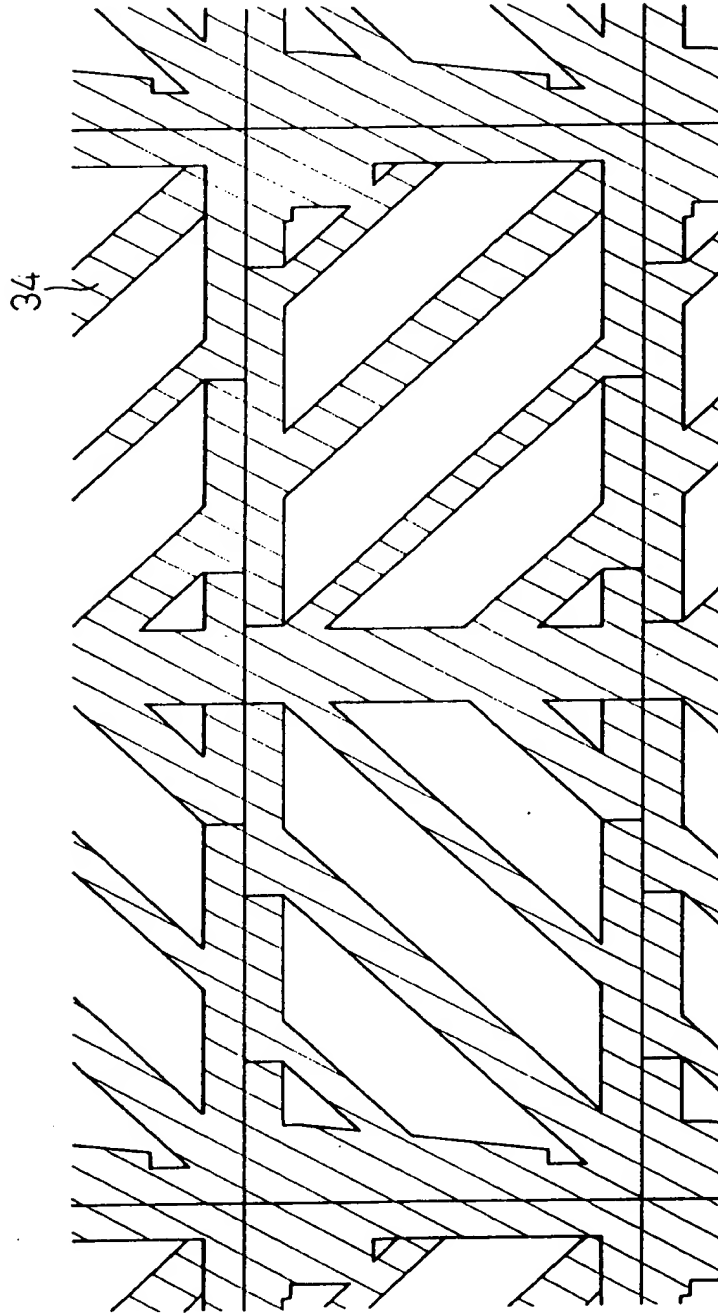
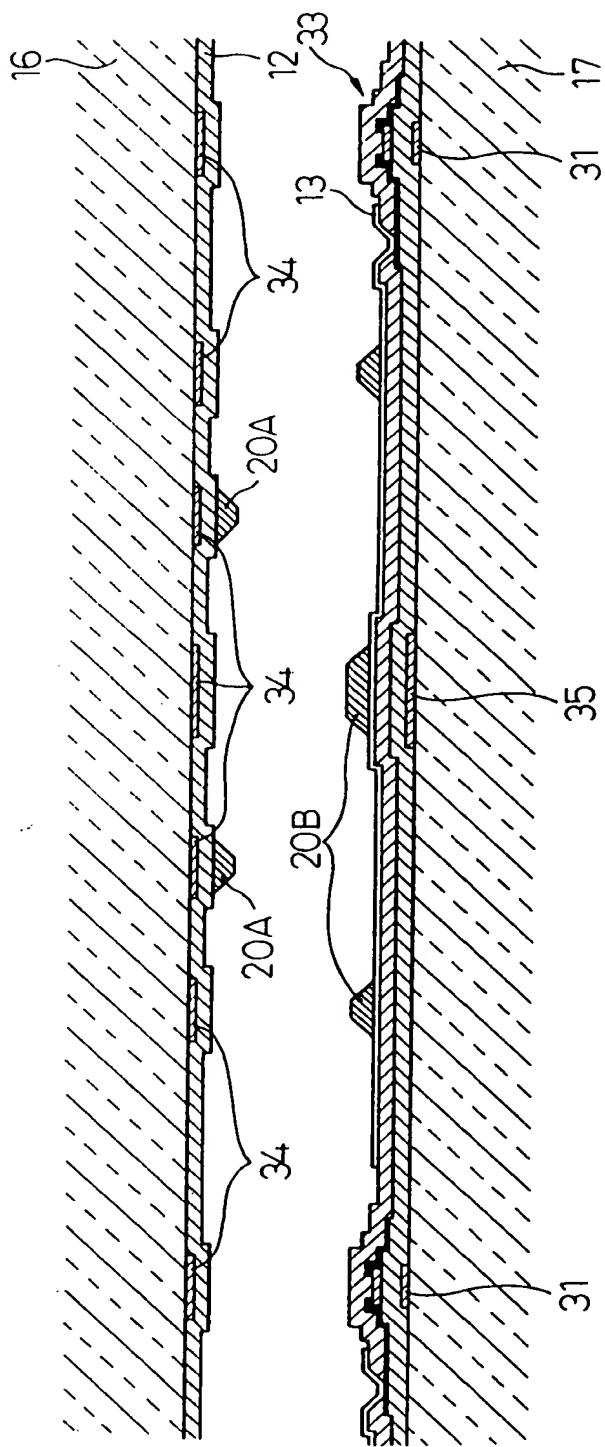
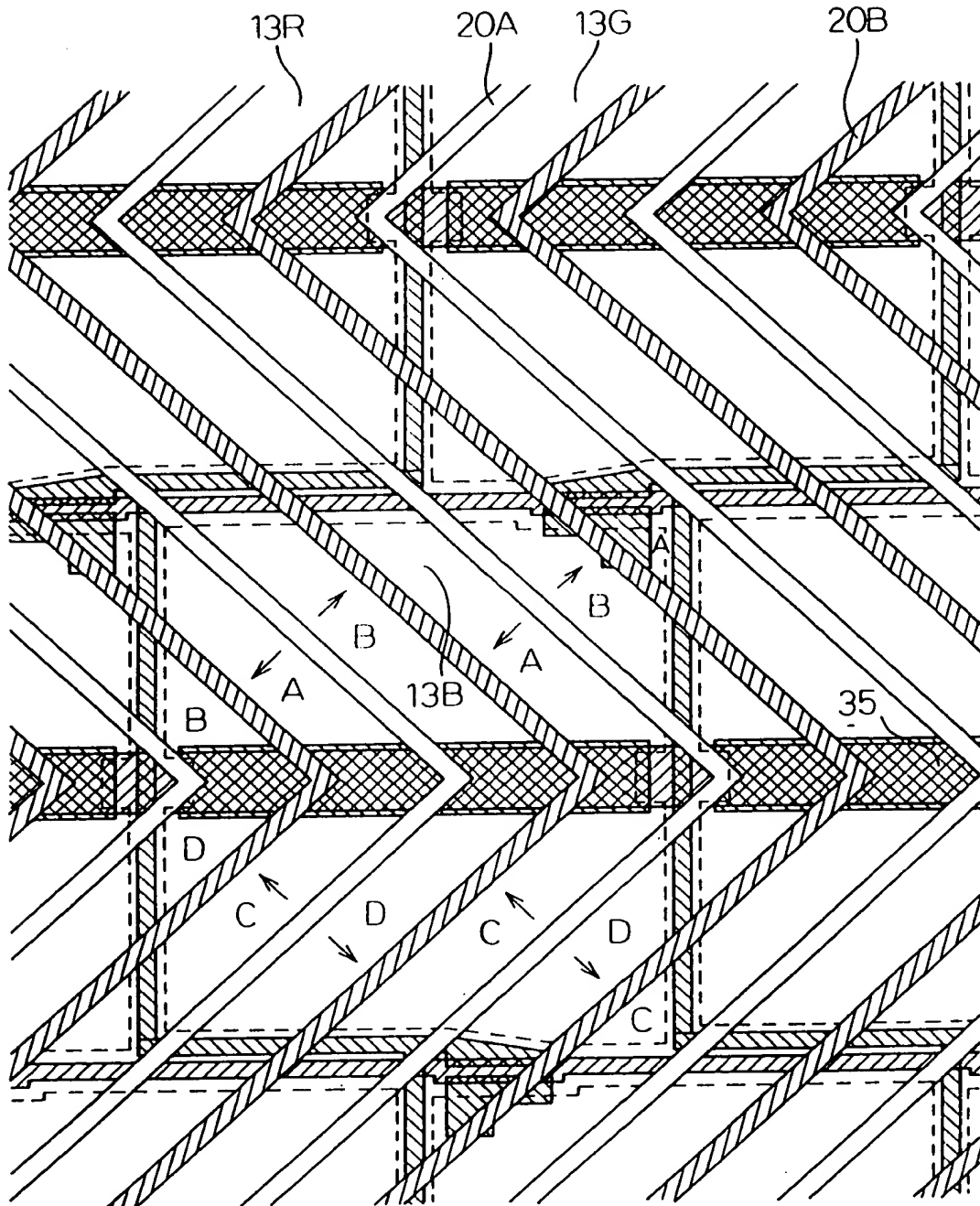


Fig. 162



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Fig. 163



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Fig.164

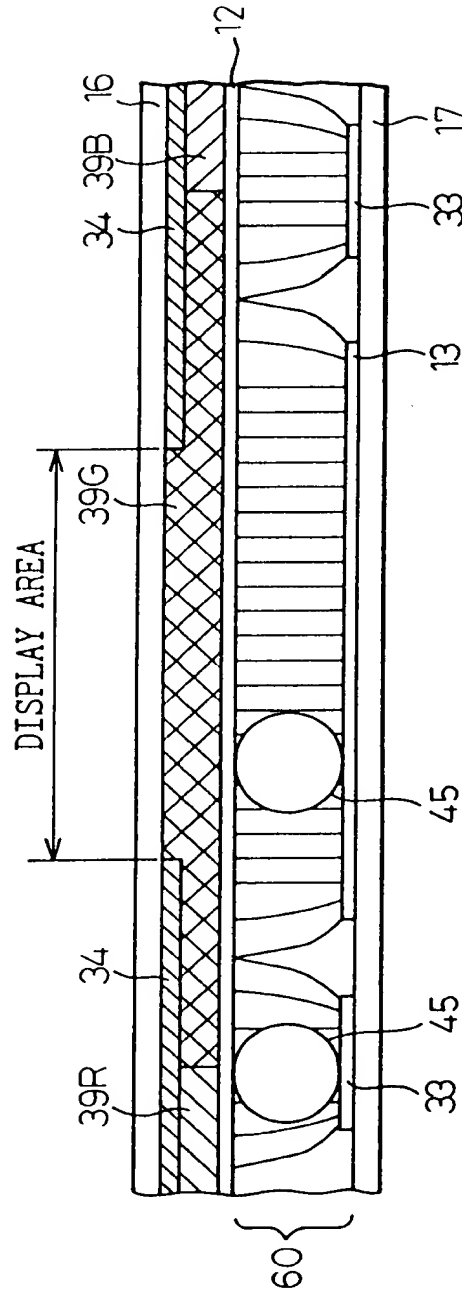


Fig.165A

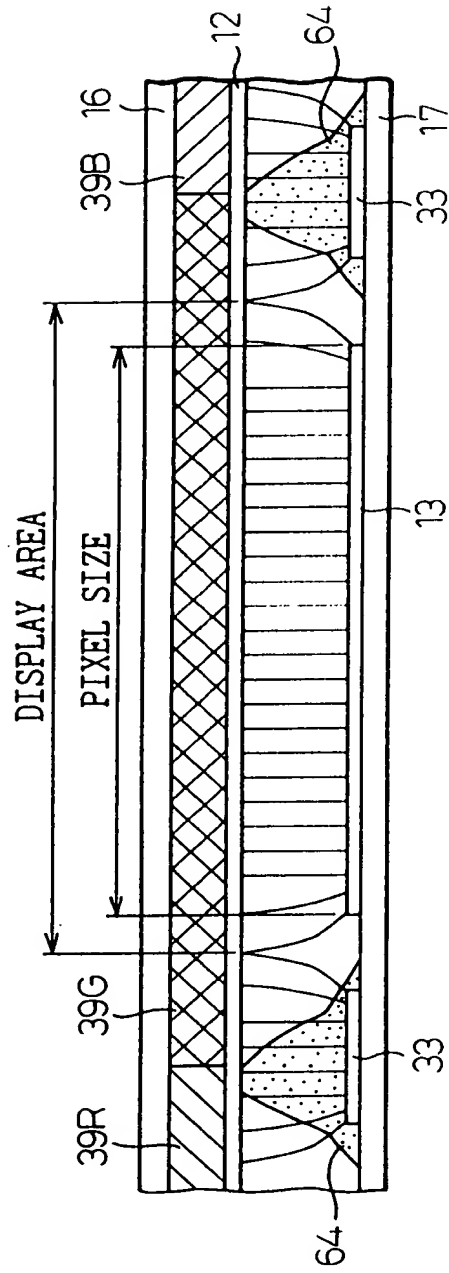


Fig.165B

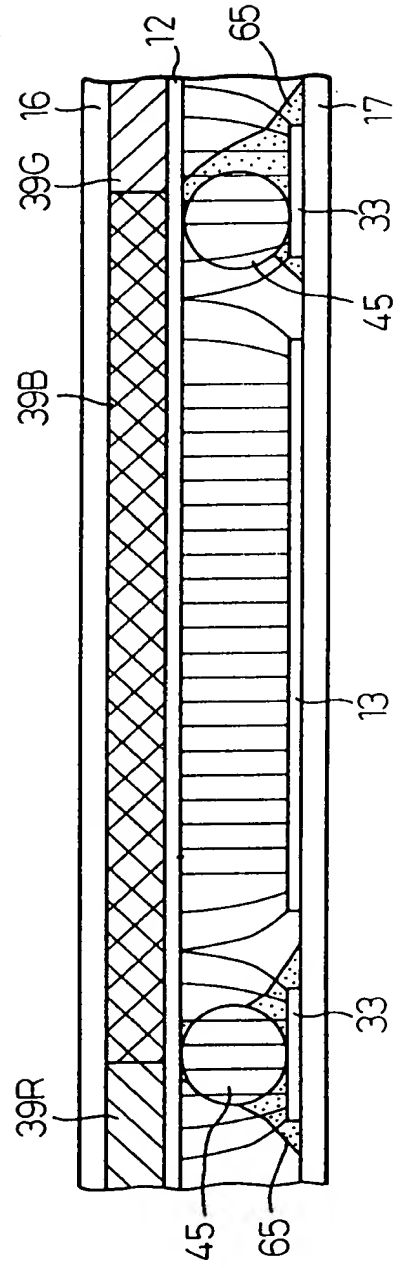
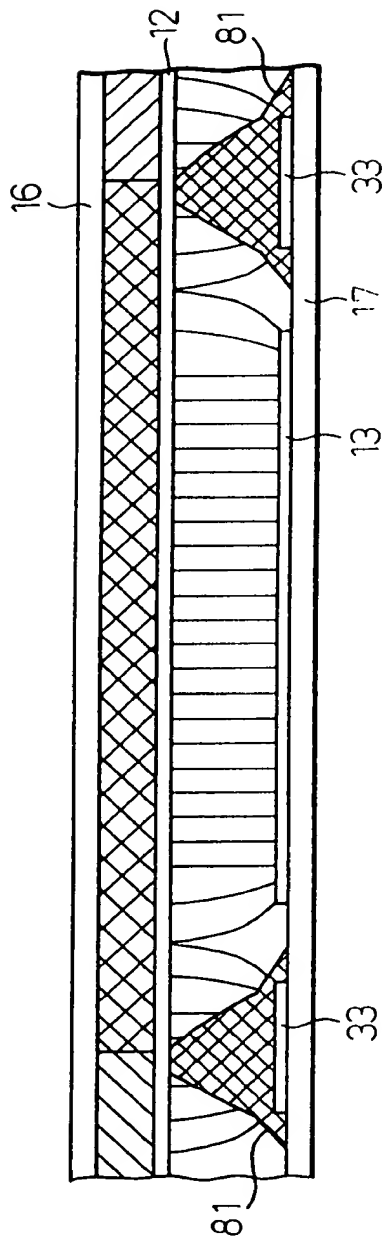


Fig. 166A



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Fig. 166B

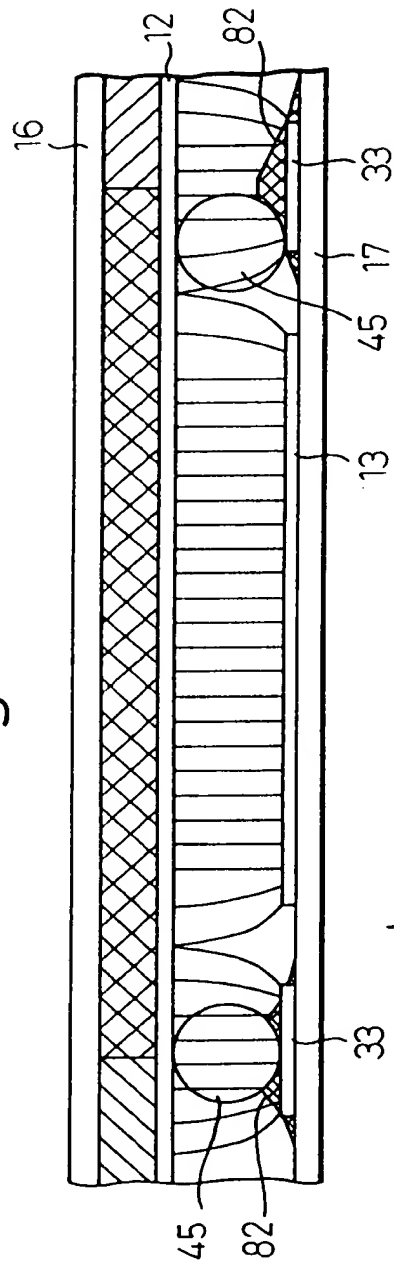
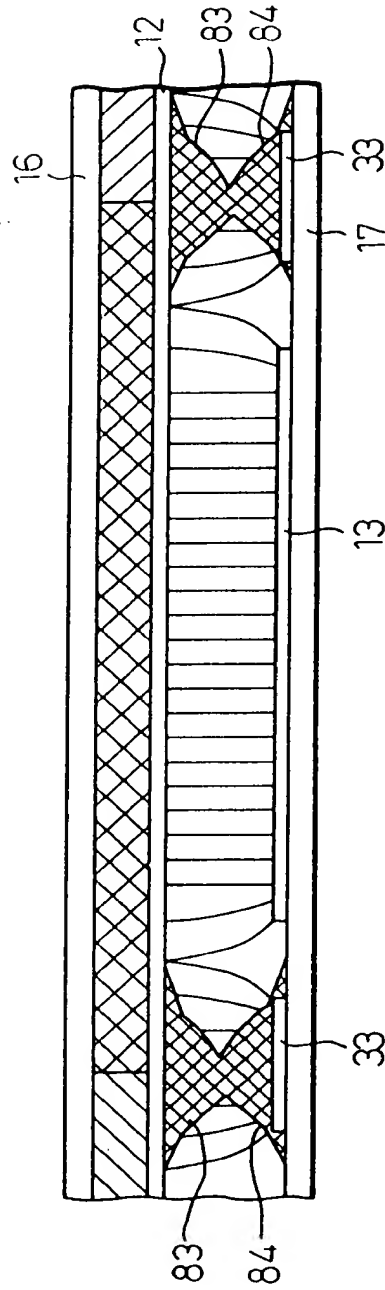


Fig.167



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Fig.168A

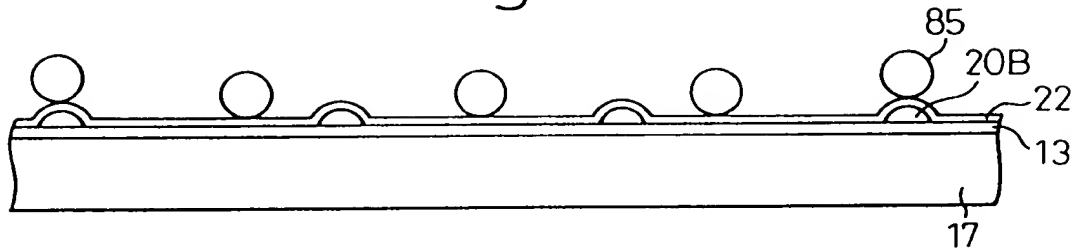


Fig.168B

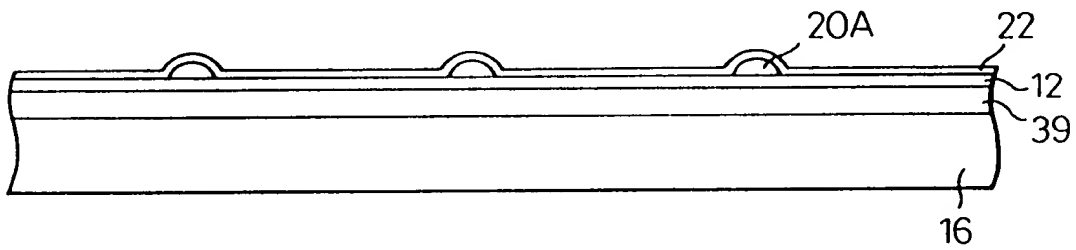
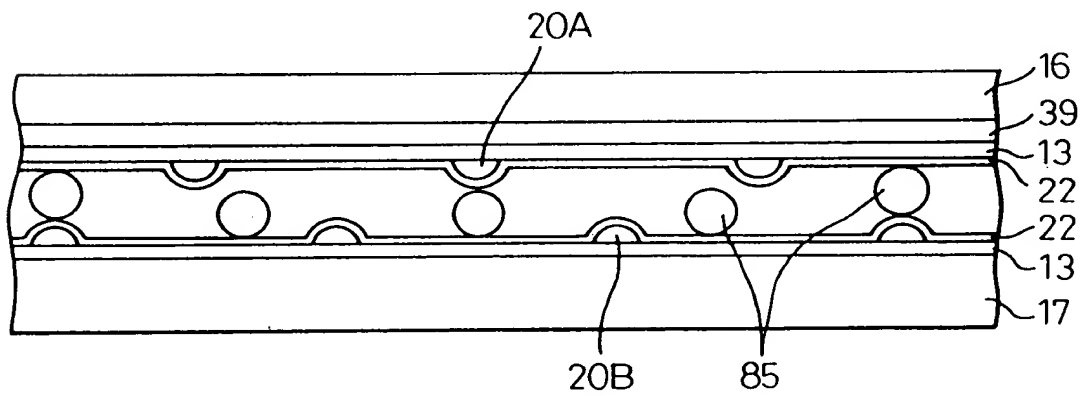


Fig.168C



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Fig. 169

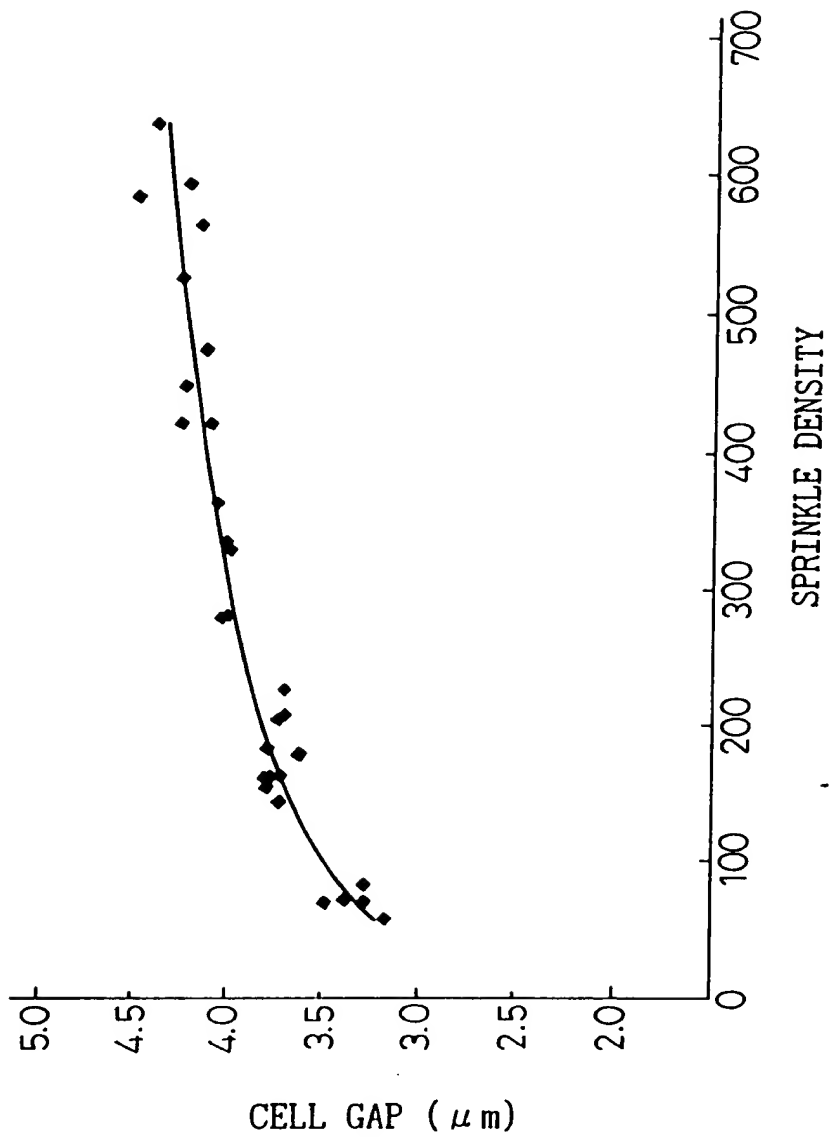
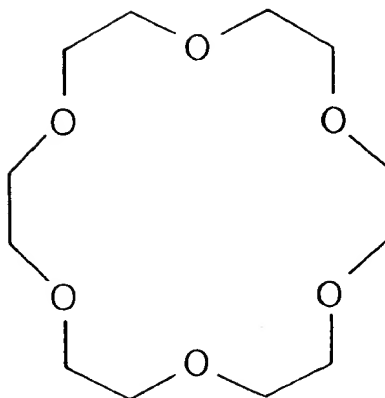


Fig.170

SPRINKLE DENSITY OF SPACERS (NUMBERS/mm ²)	50	100	150	200	250	300	350	400	450	500	550
BLEMISH OCCURRENCE DUE TO PUSHING	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
BLEMISH OCCURRENCE DUE TO PULLING	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

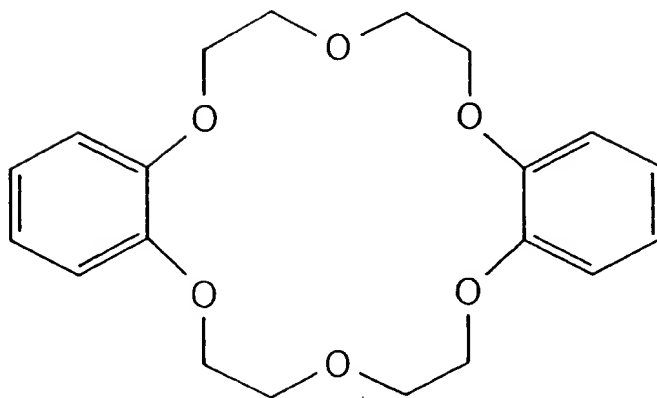
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Fig.171A



18-CROWN-6

Fig.171B

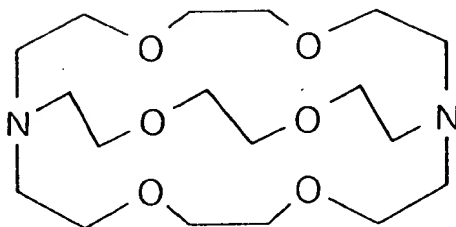


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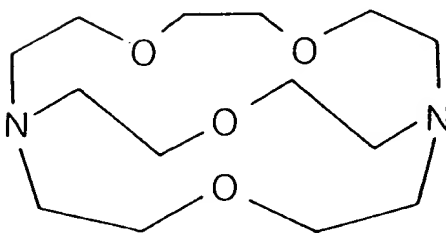
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Fig.172A



CRYPTAND [2.2.2]

Fig.172B



CRYPTAND [2.1.1]

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Fig.173A

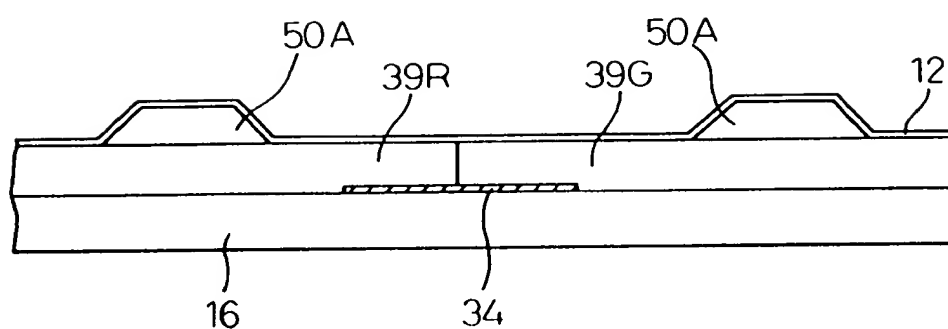


Fig.173B

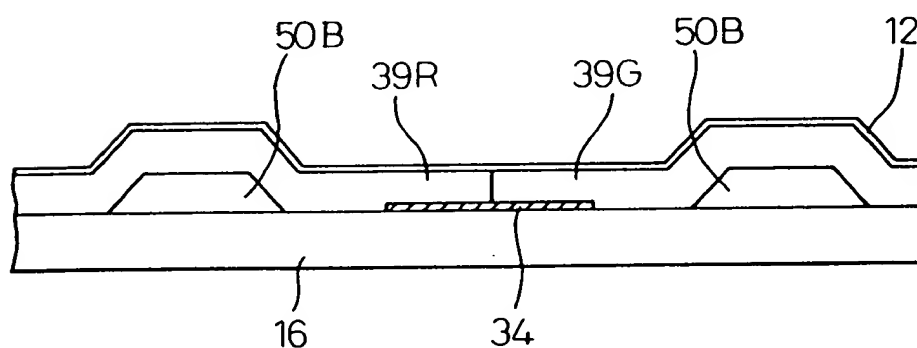


Fig.174

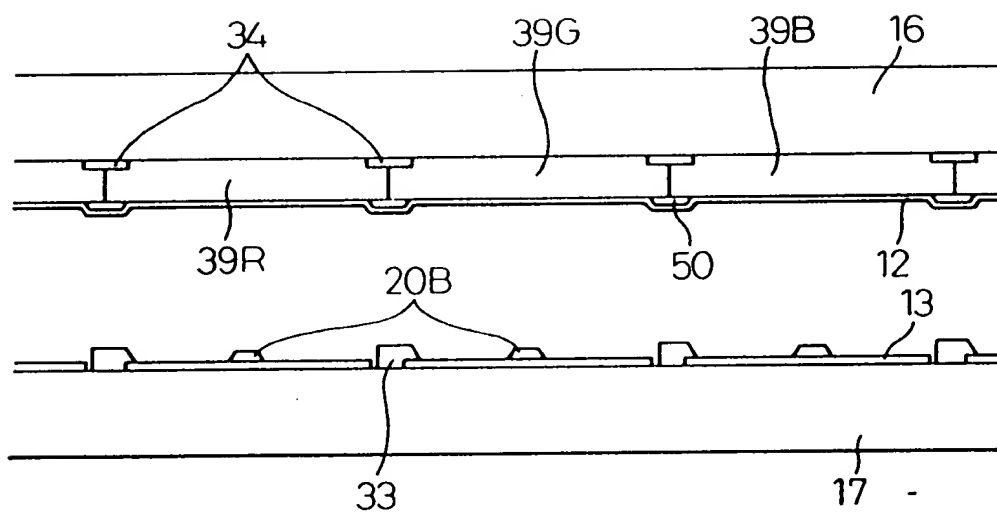


Fig.175A

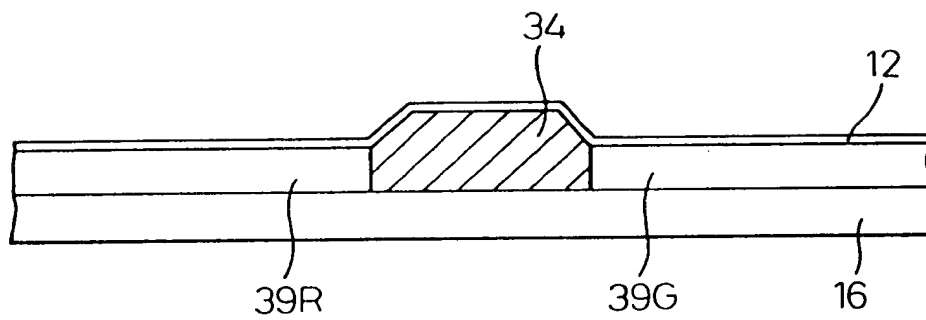
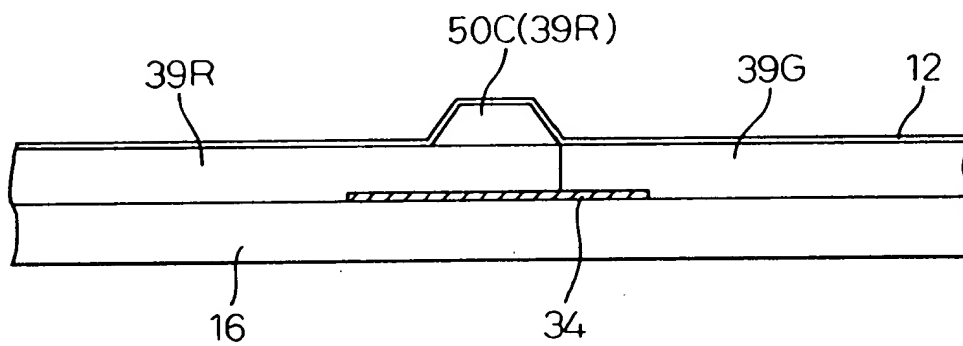


Fig.175B



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Fig.176A

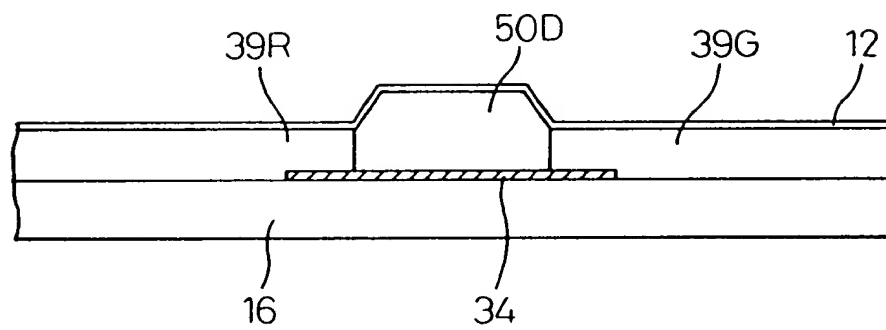
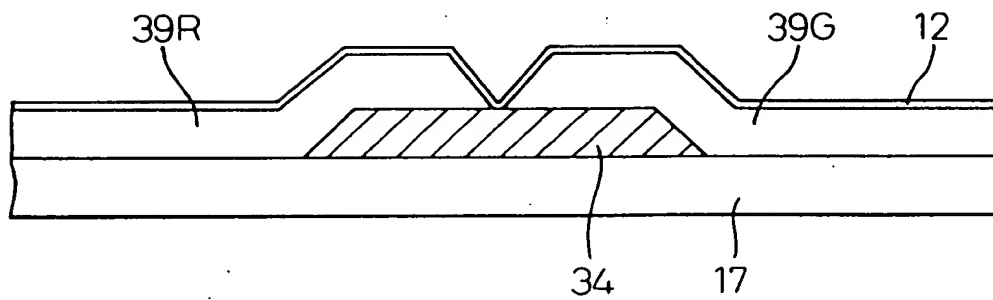


Fig.176B



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Fig.177A

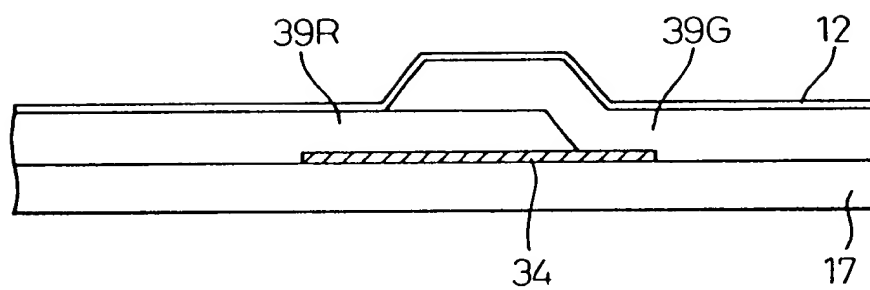
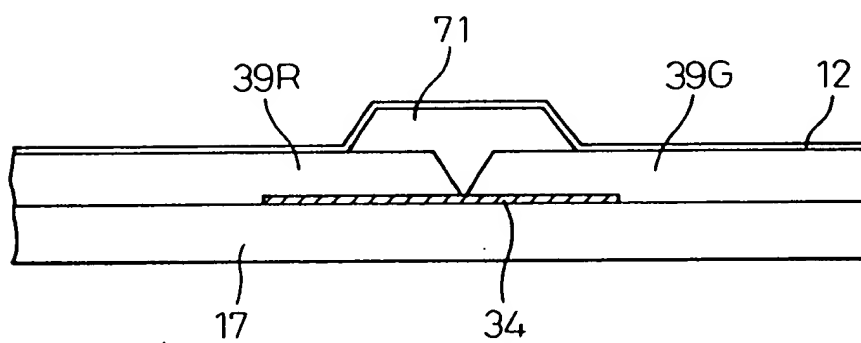
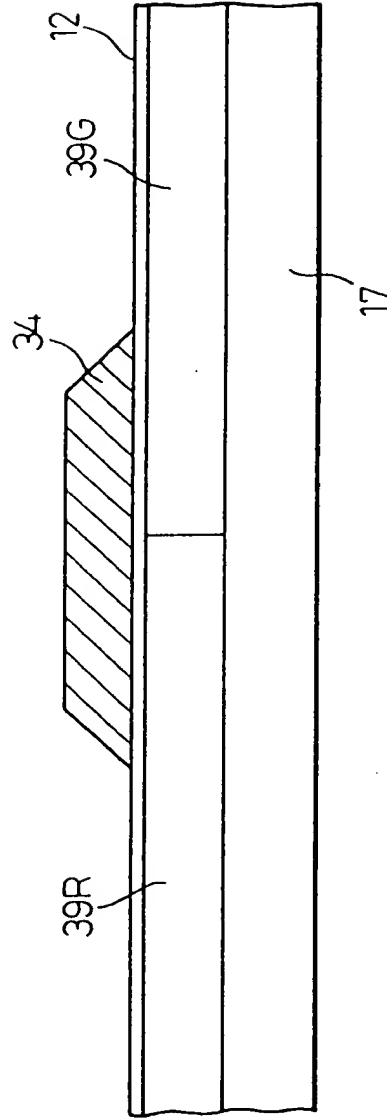


Fig.177B



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Fig.178



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Fig.179A

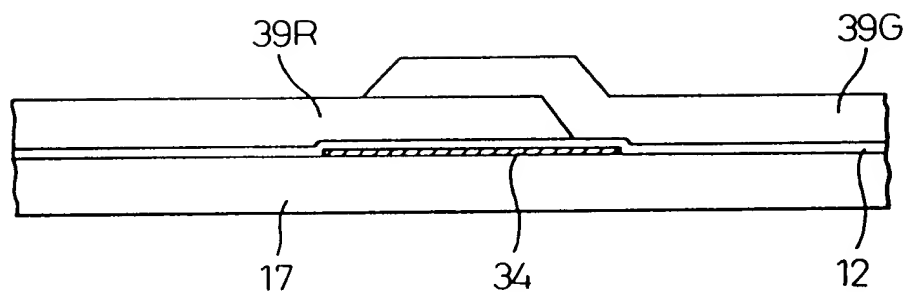
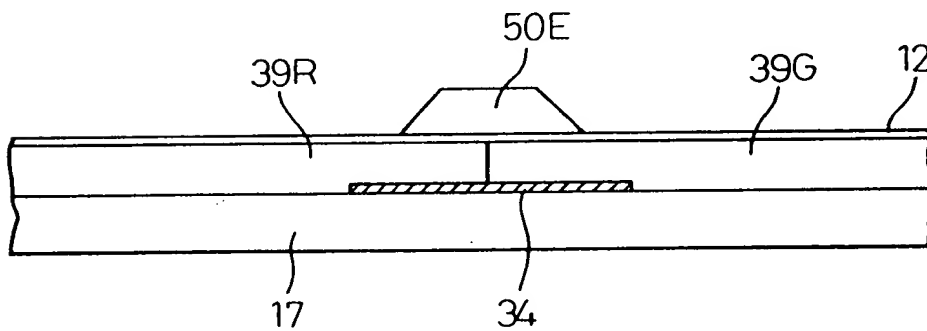


Fig.179B



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Fig.180A

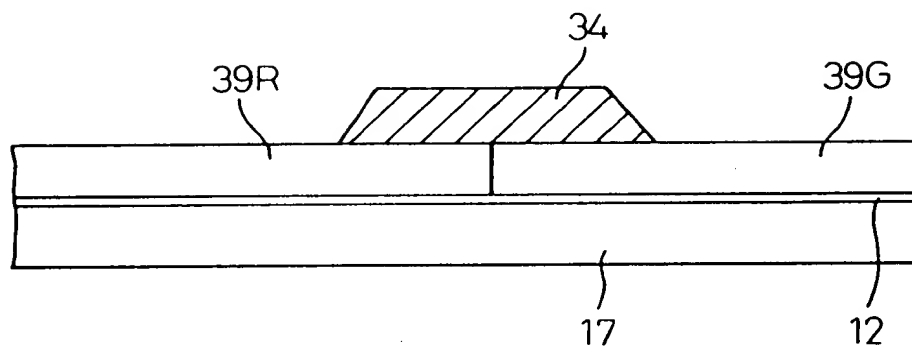


Fig.180B

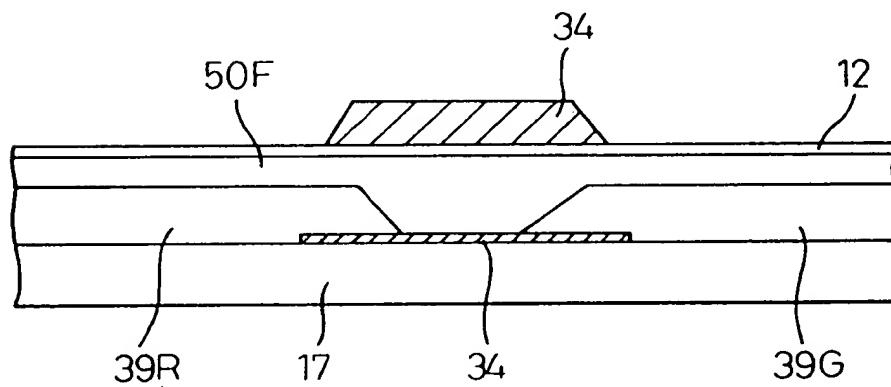


Fig.181A

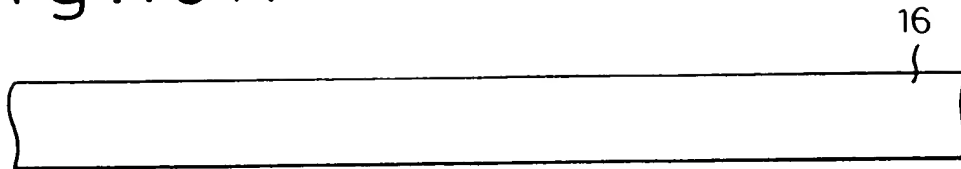


Fig.181B

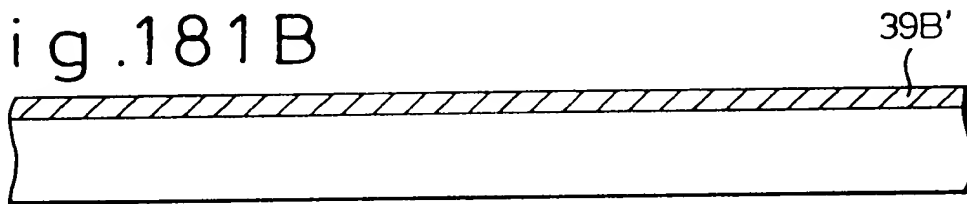


Fig.181C

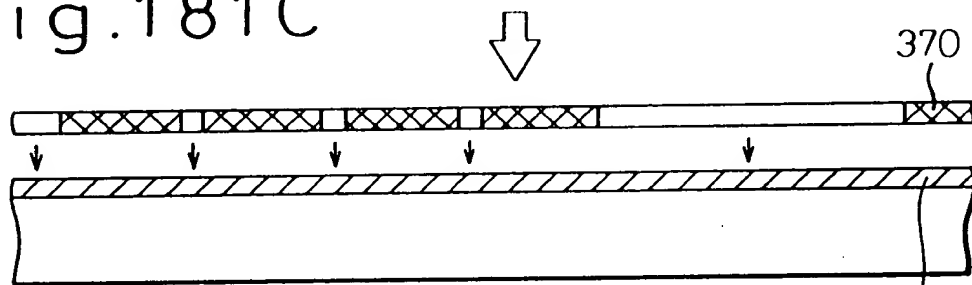


Fig.181D

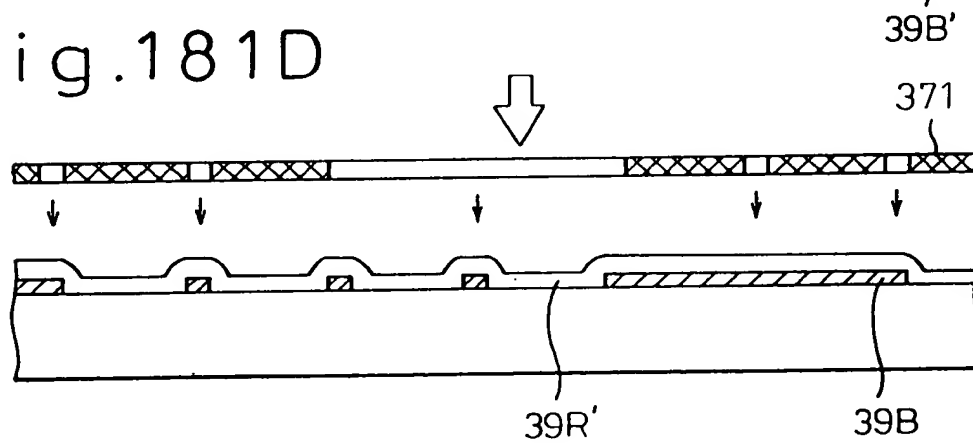


Fig.181E

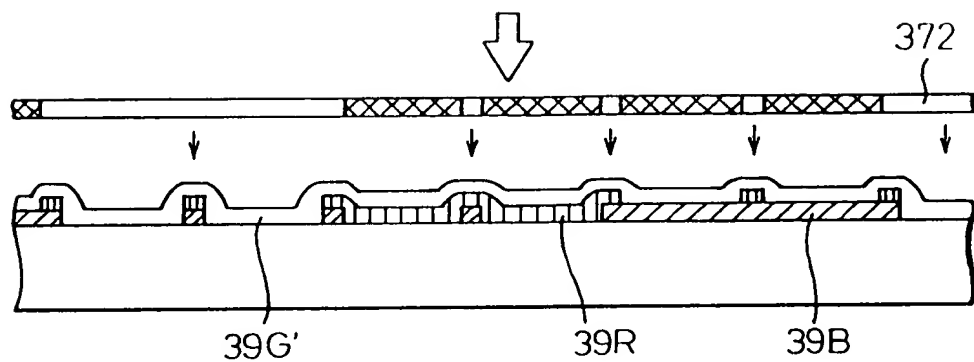


Fig.181F

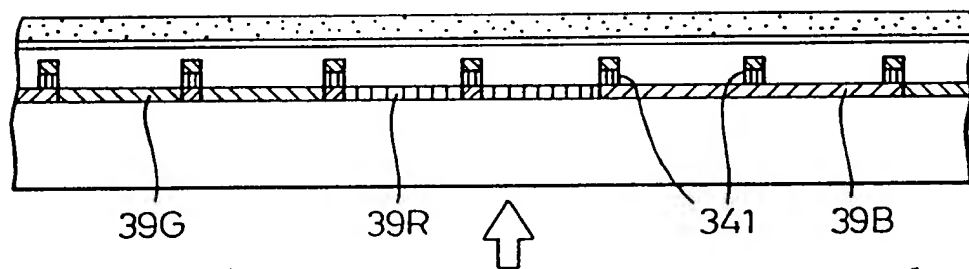
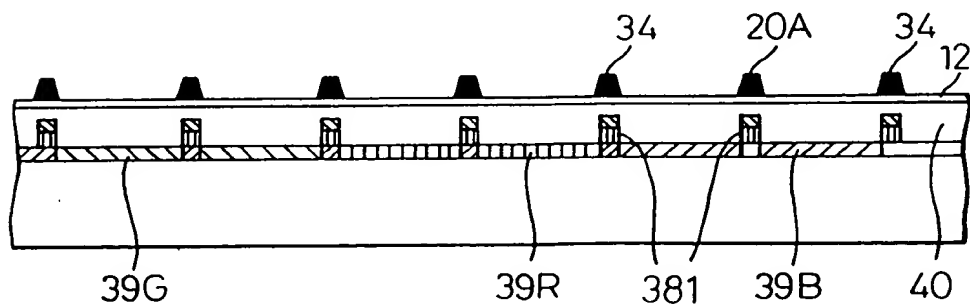
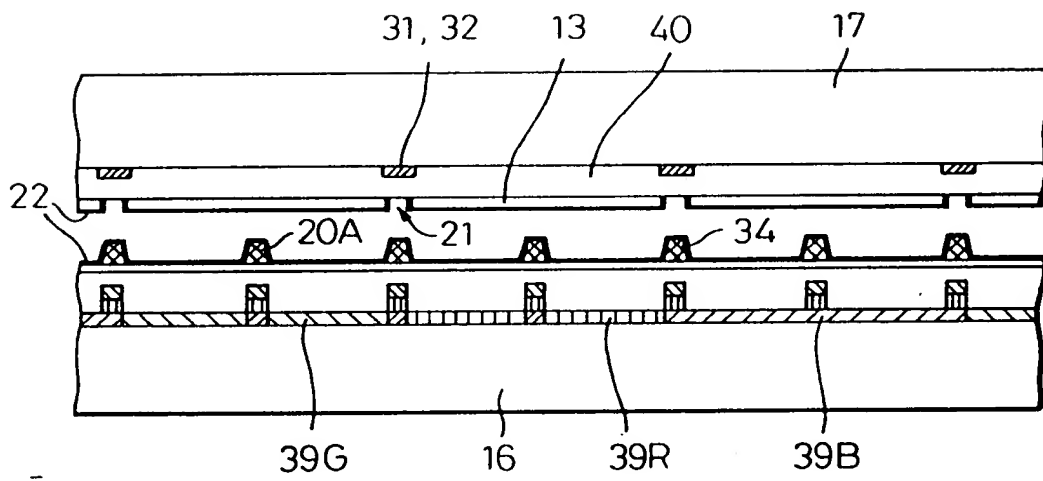


Fig.181G



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Fig.182



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Fig.183A

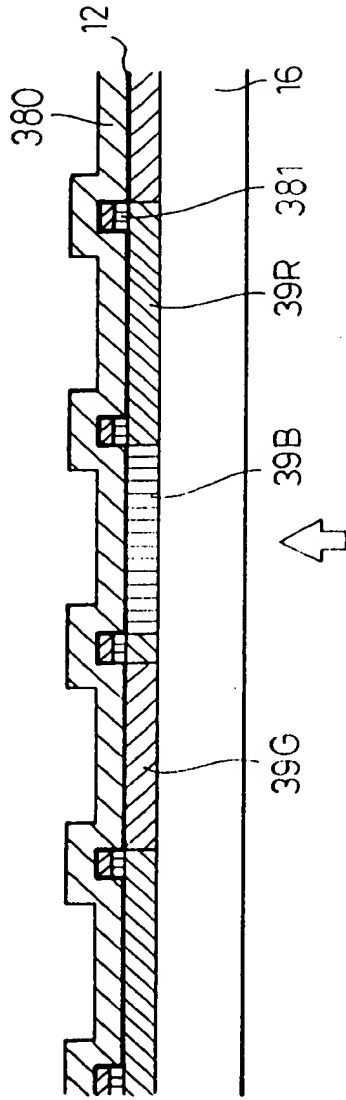
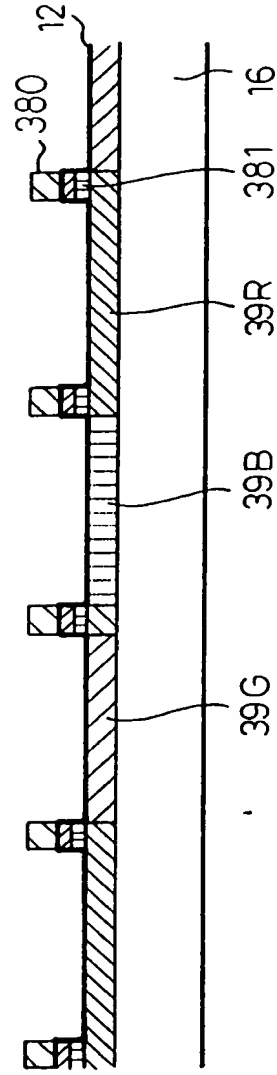


Fig.183B



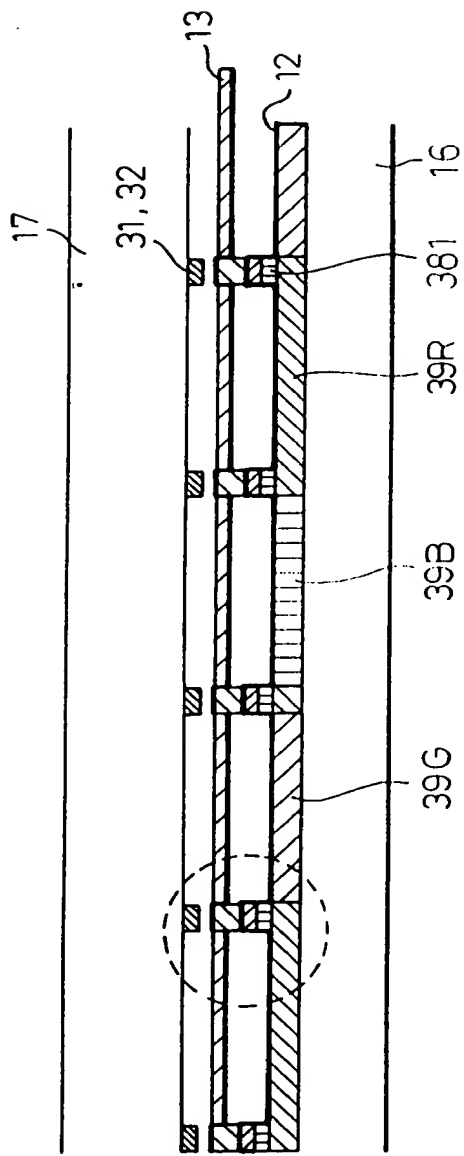


Fig. 184A

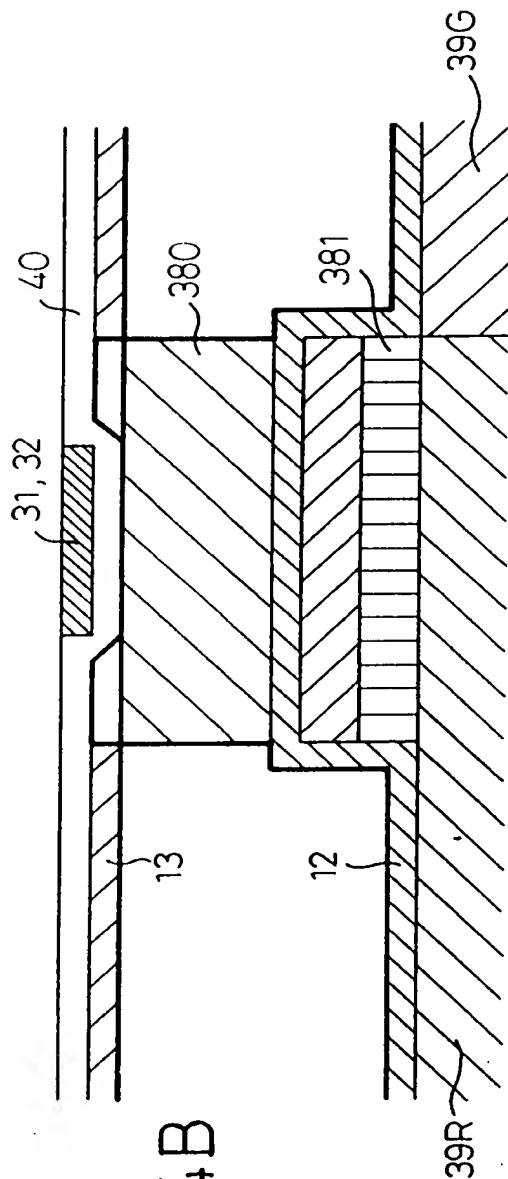


Fig. 184B

Fig.185A

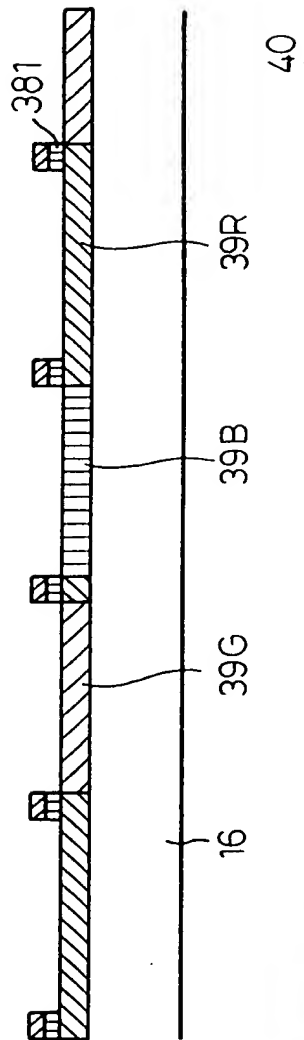


Fig.185B

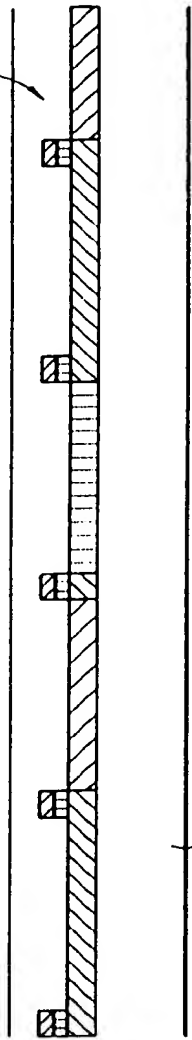


Fig.185C

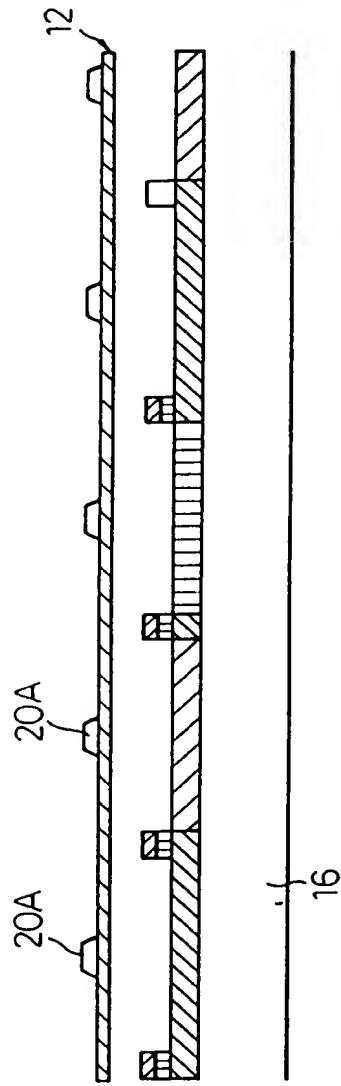
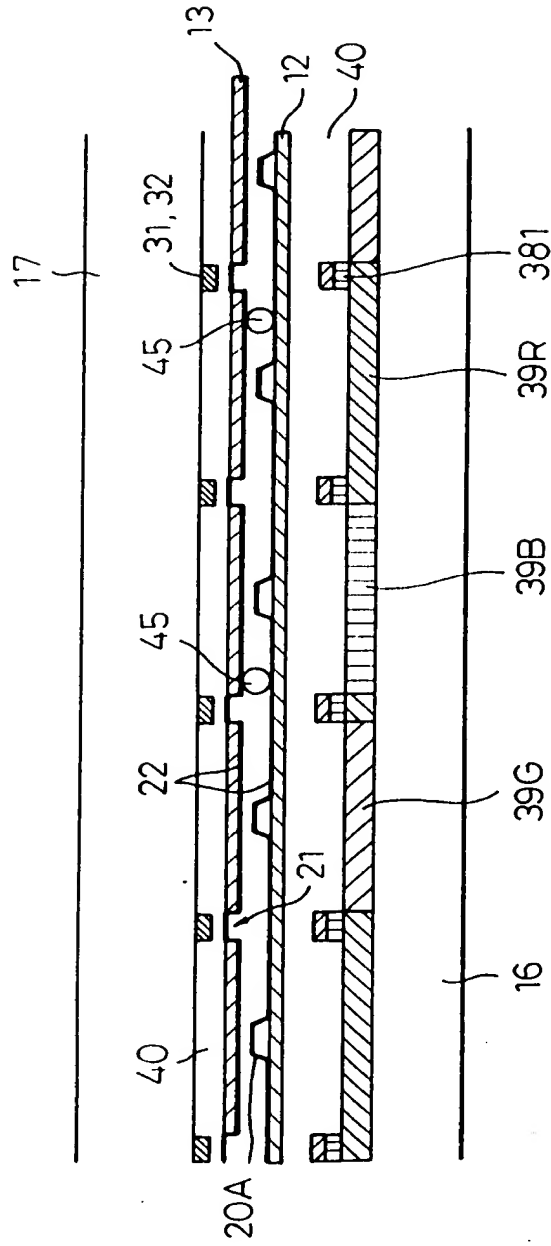
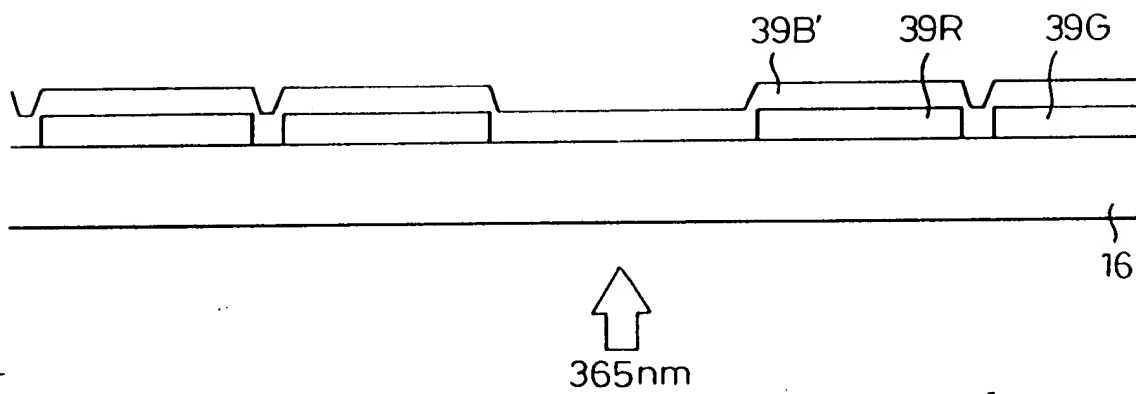


Fig.186



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Fig.187



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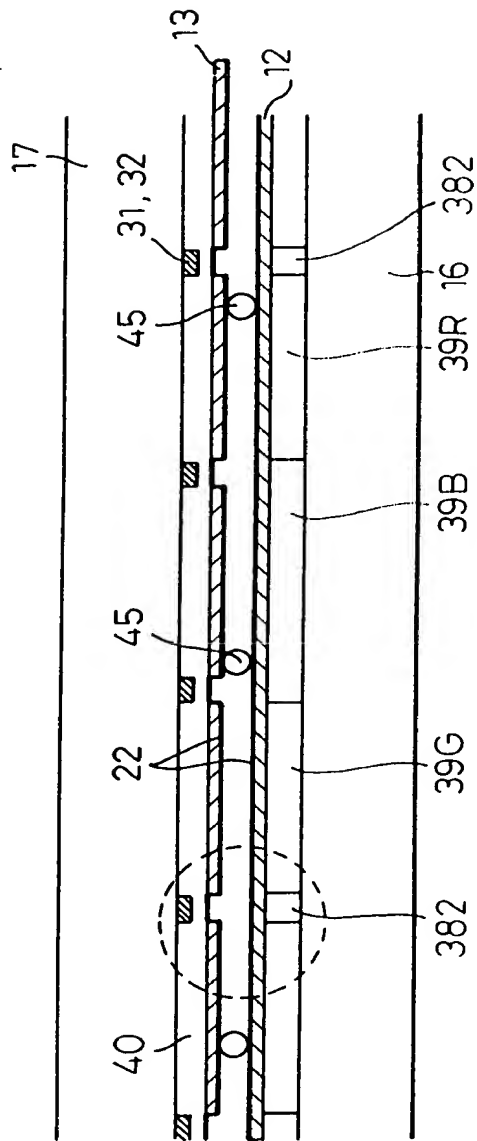


Fig. 188A

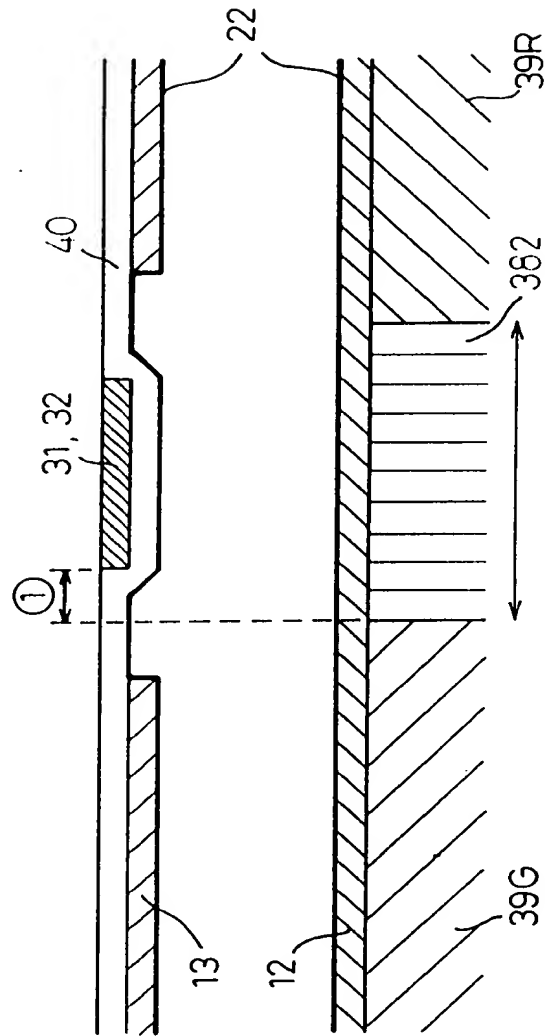


Fig. 188B

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Fig.189

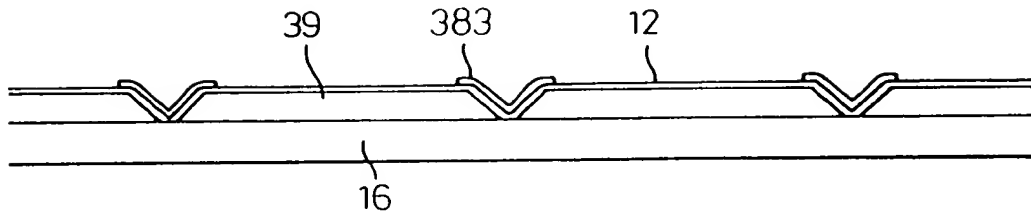


Fig.190A

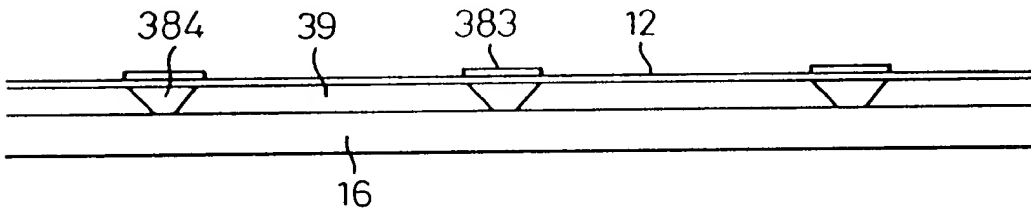
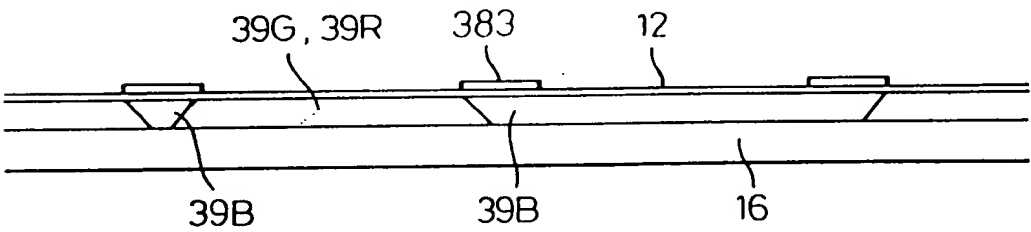


Fig.190B



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Fig.191

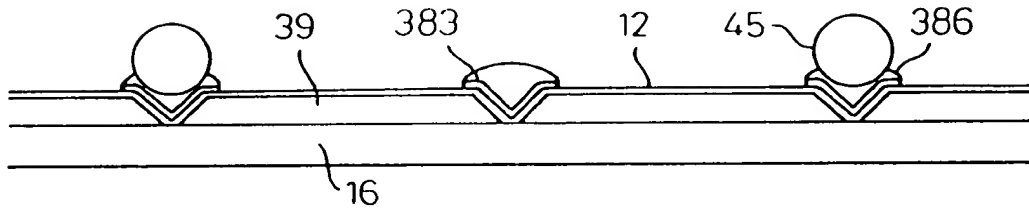


Fig.192

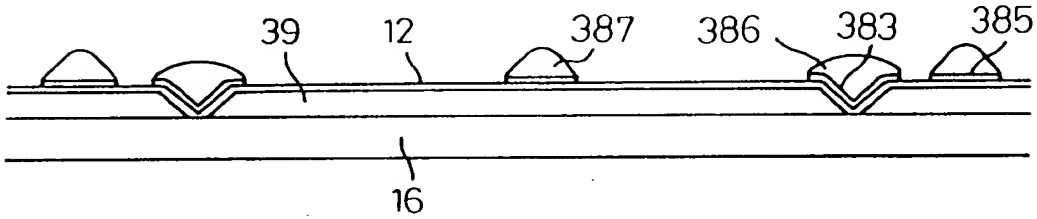
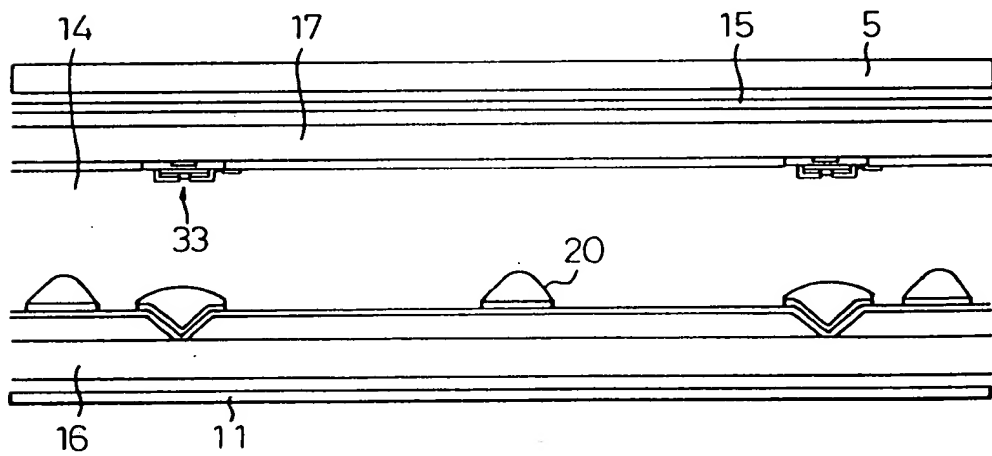


Fig.193



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Fig. 194

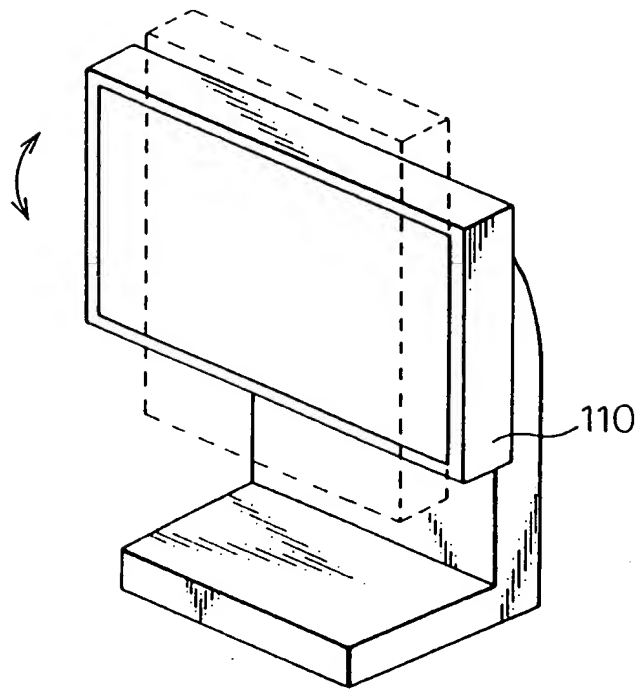
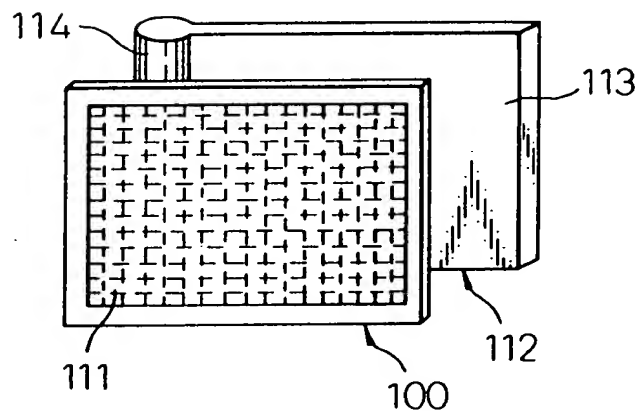


Fig. 195



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Fig.196A

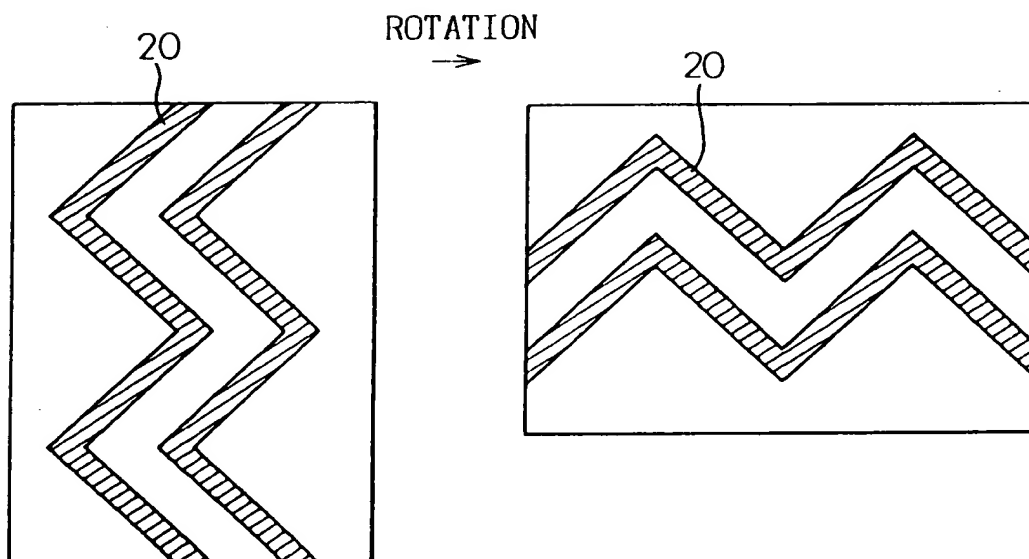


Fig.196B

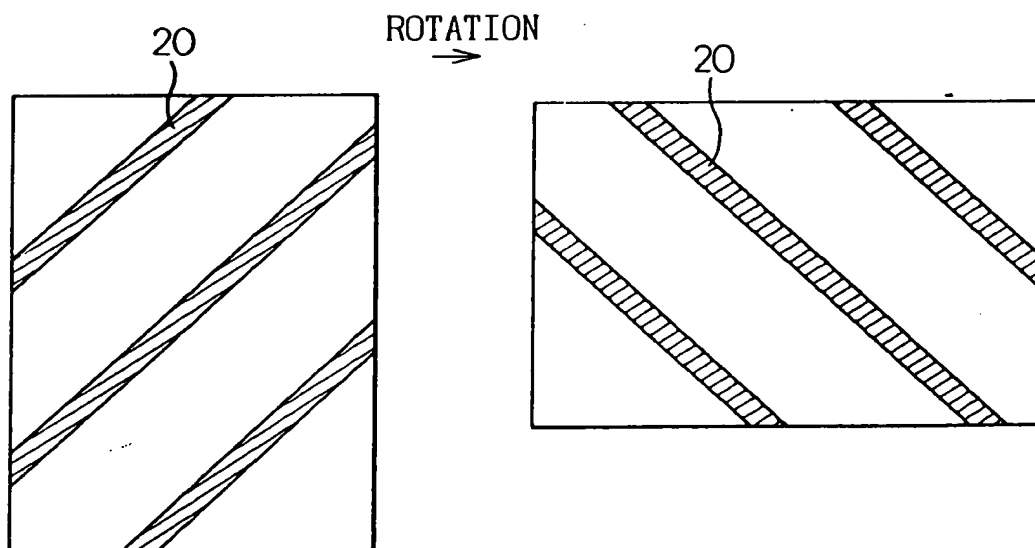
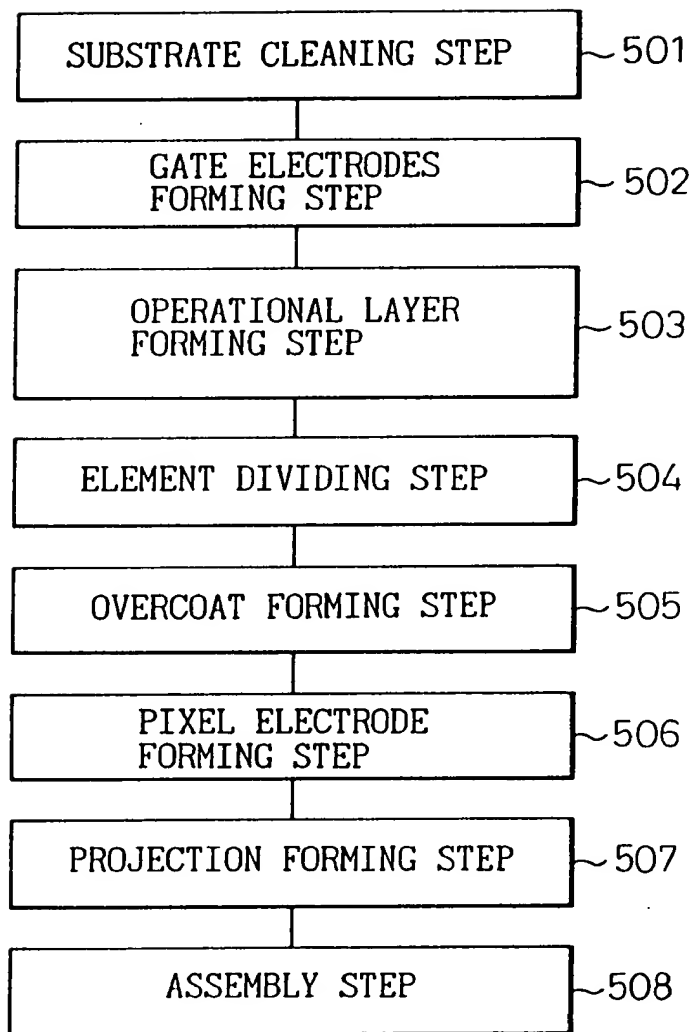


Fig.197



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Fig.198

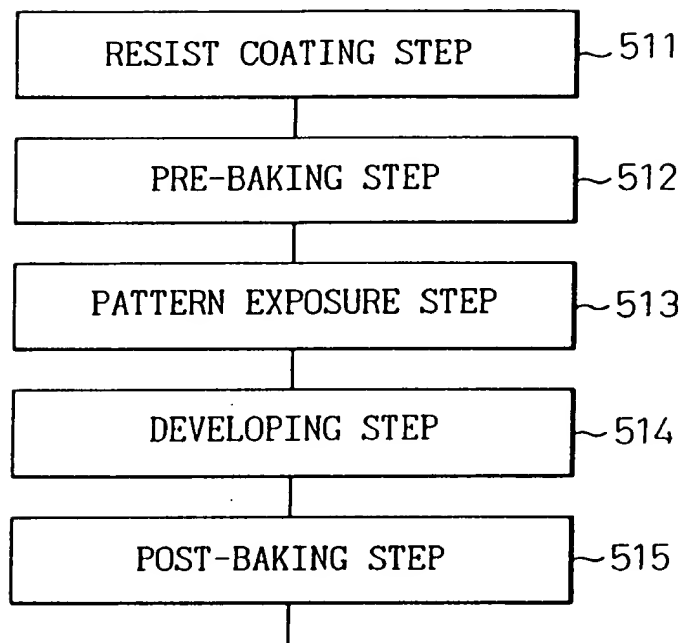
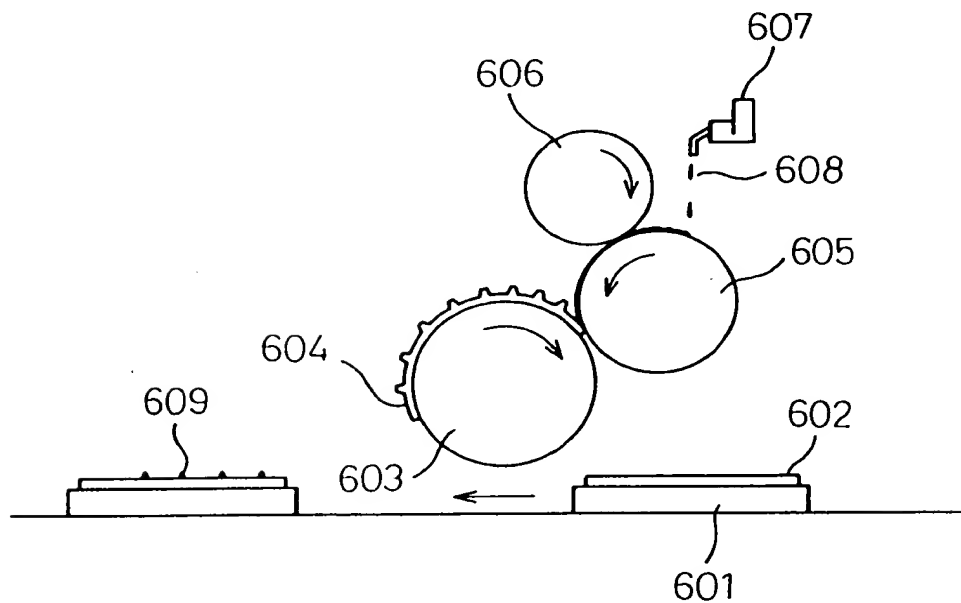


Fig.199



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Fig. 200

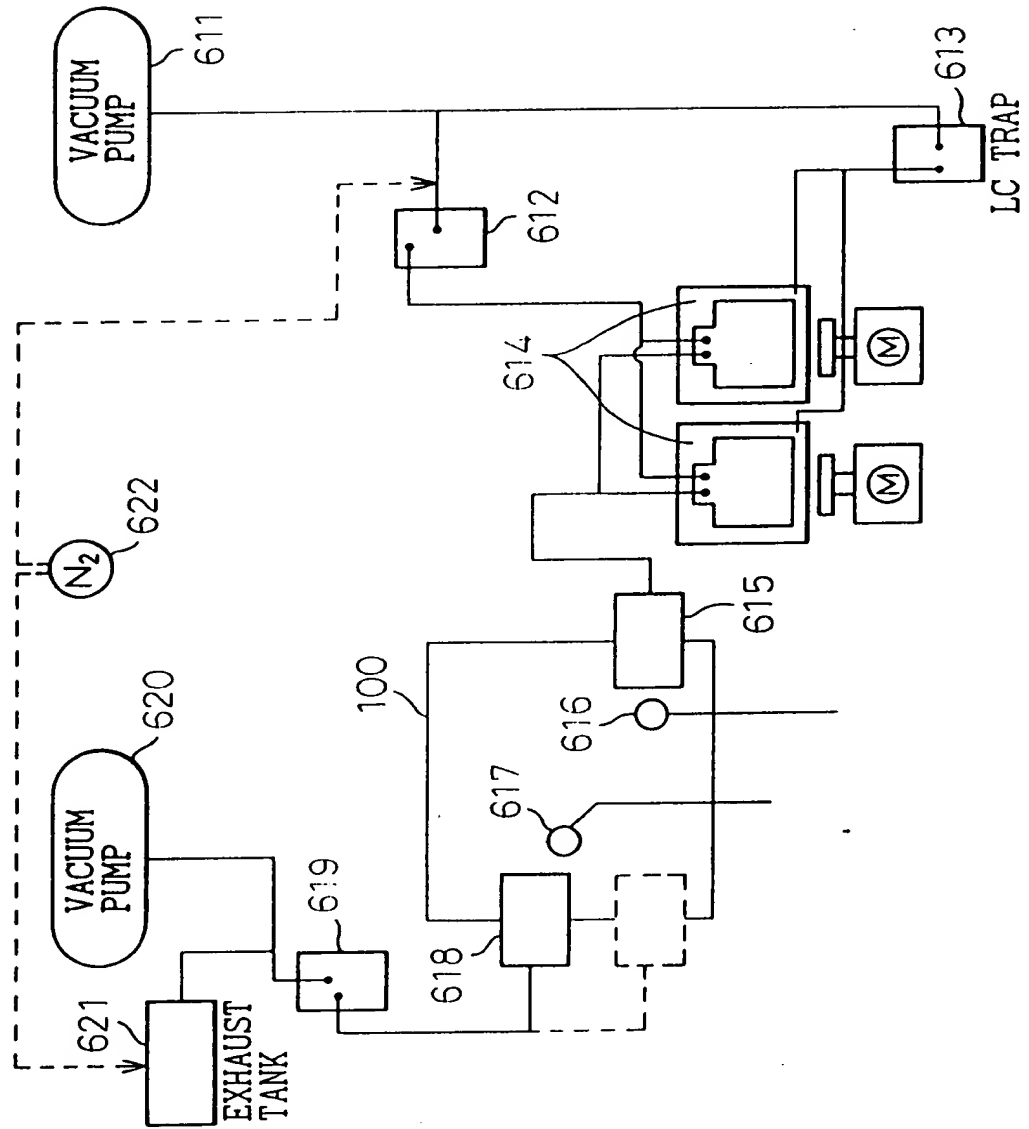


Fig. 201A

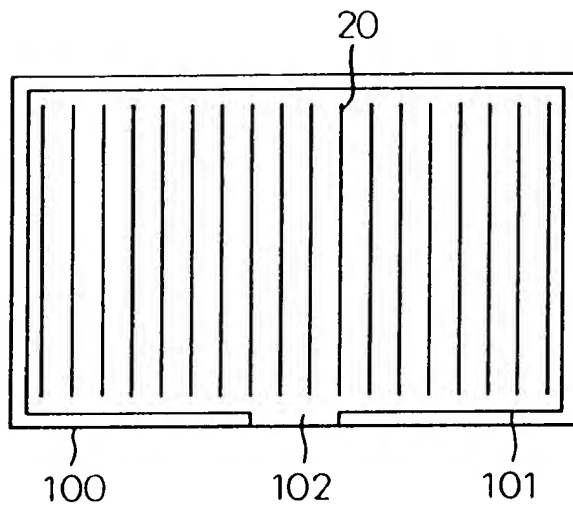


Fig. 201B

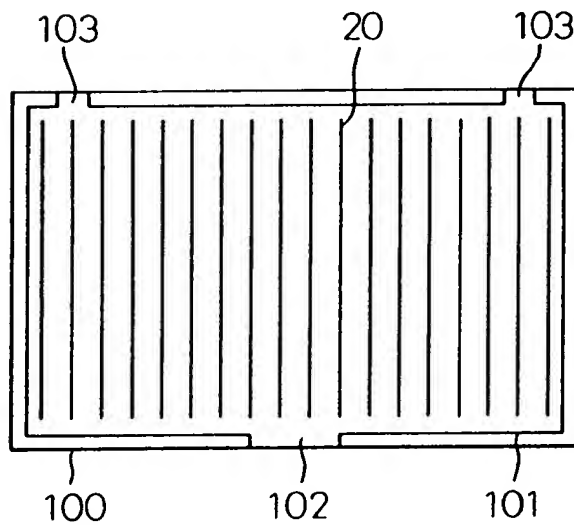


Fig. 202A

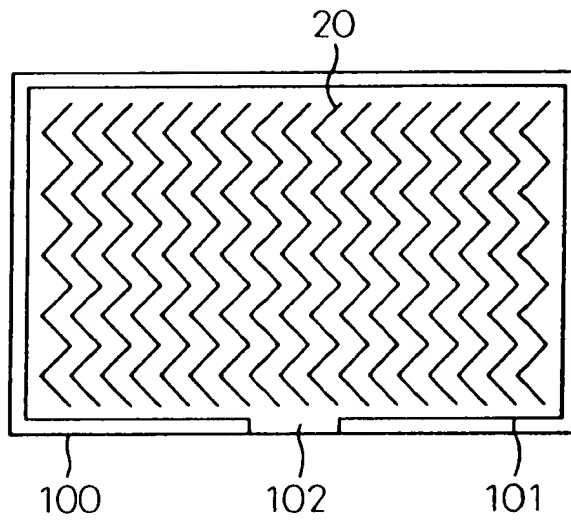


Fig. 202B

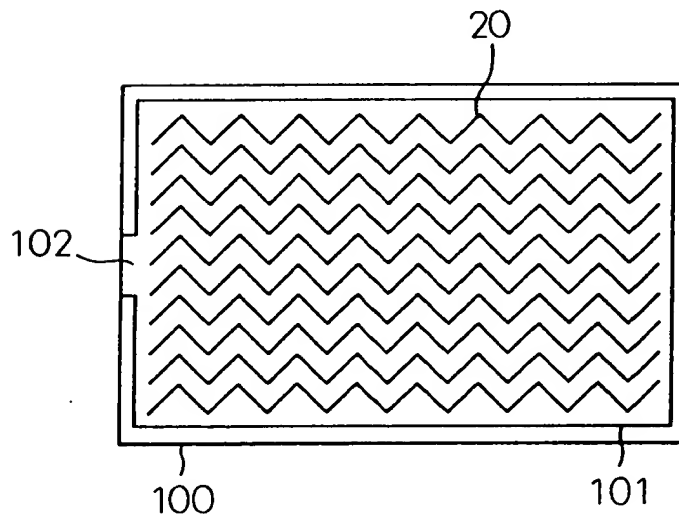


Fig. 203A

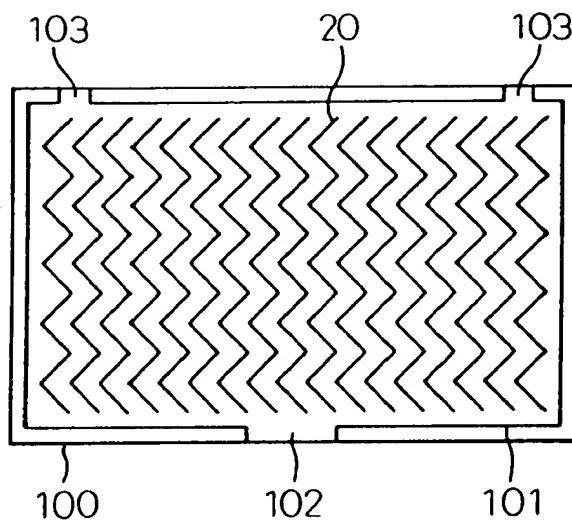
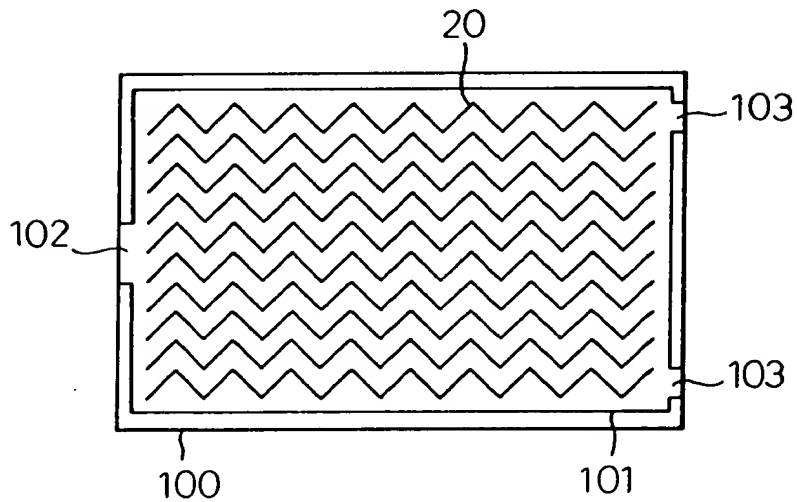
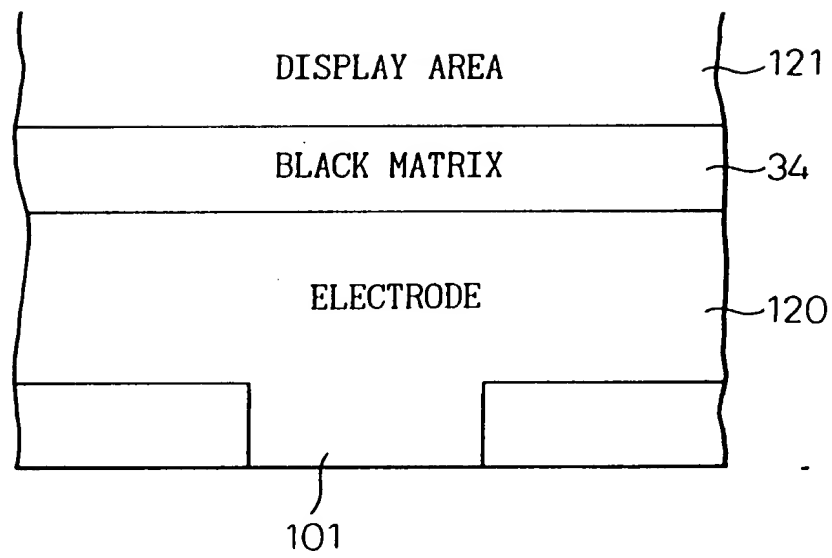


Fig. 203B



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Fig. 204



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Fig. 205A

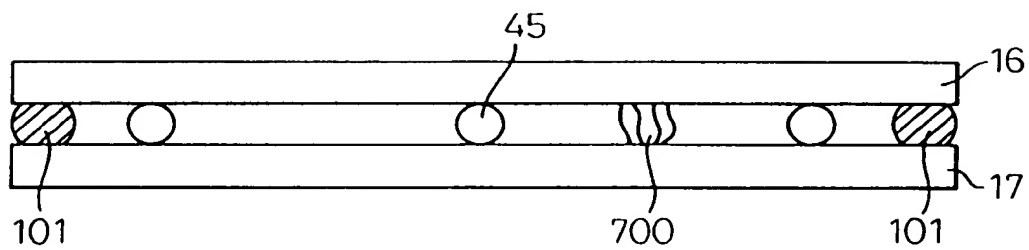


Fig. 205B

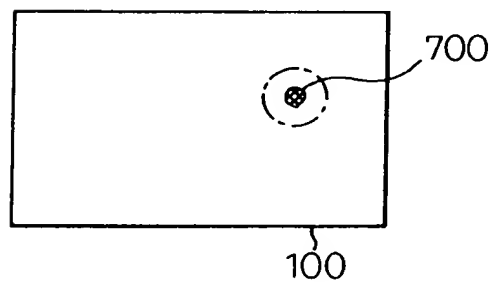
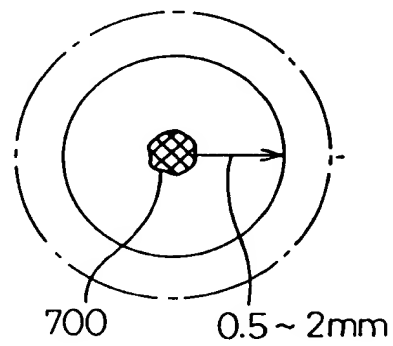
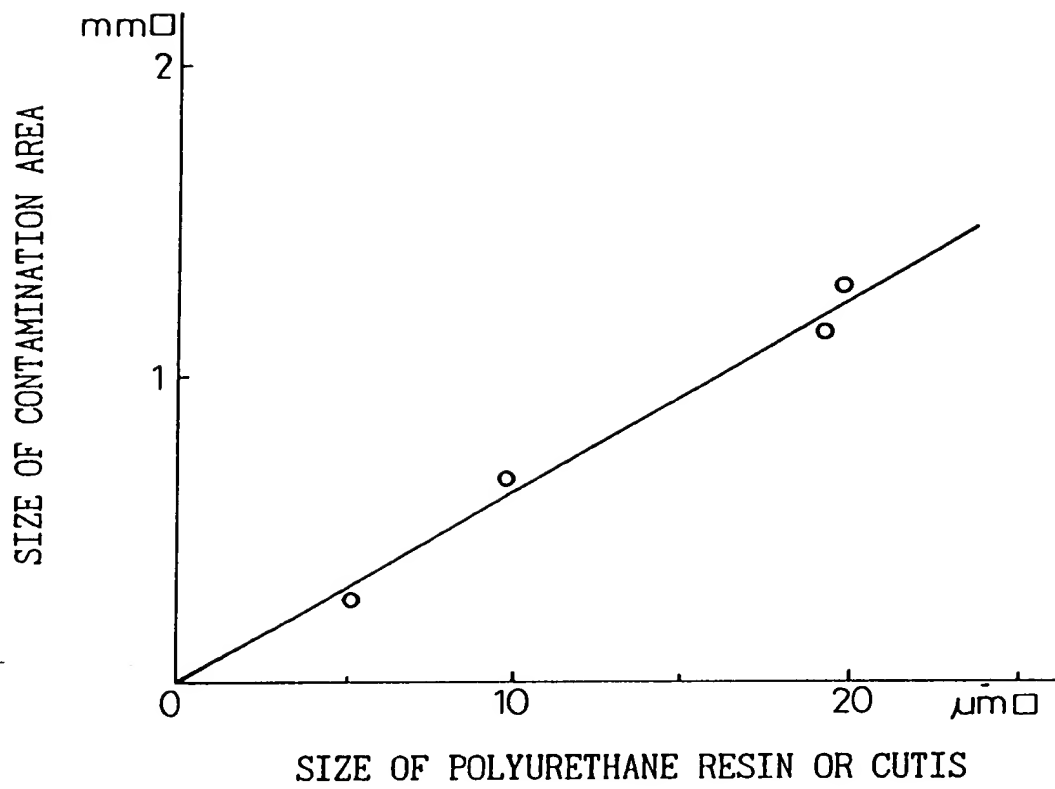


Fig. 205C



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Fig. 206



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Fig. 207

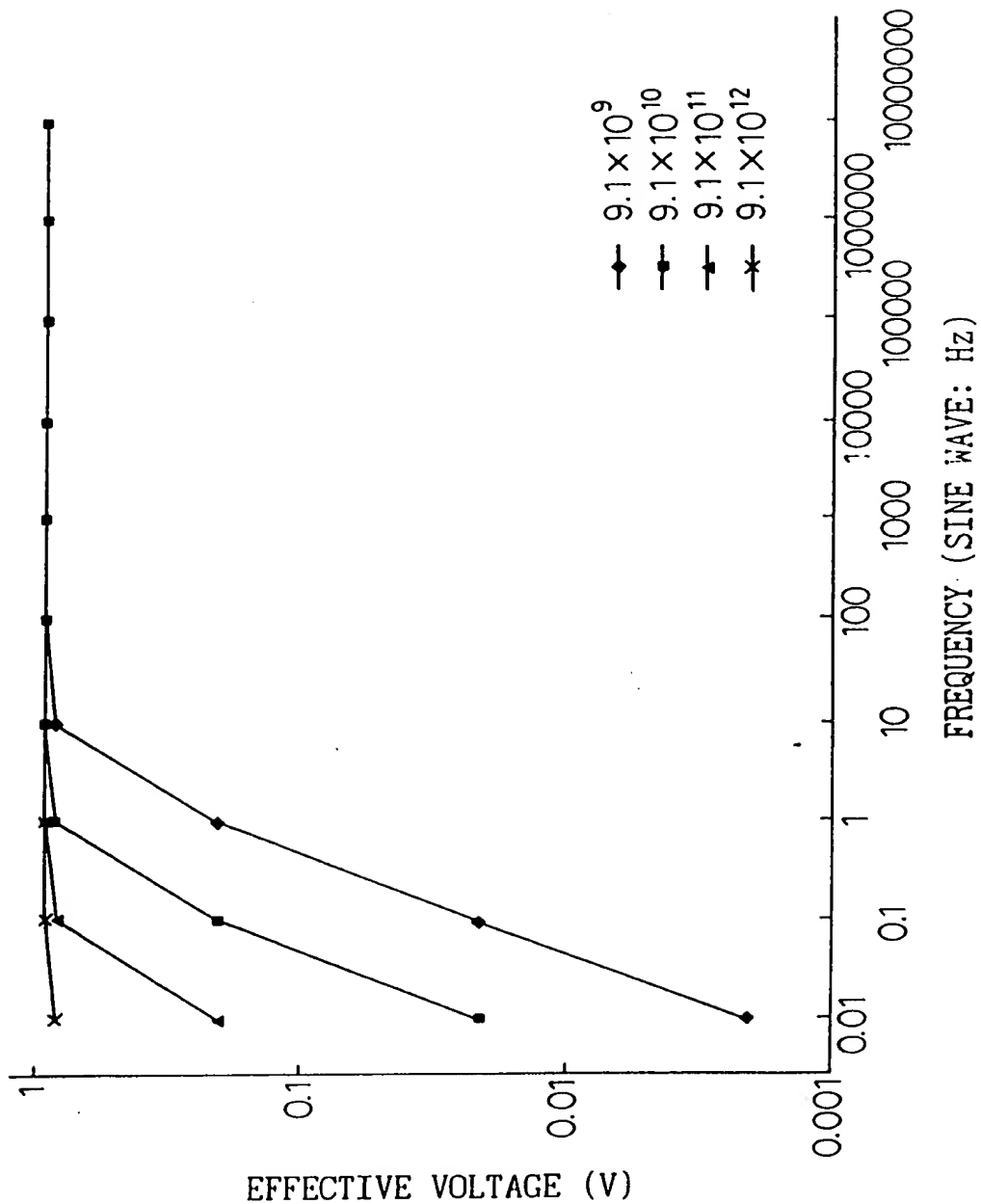
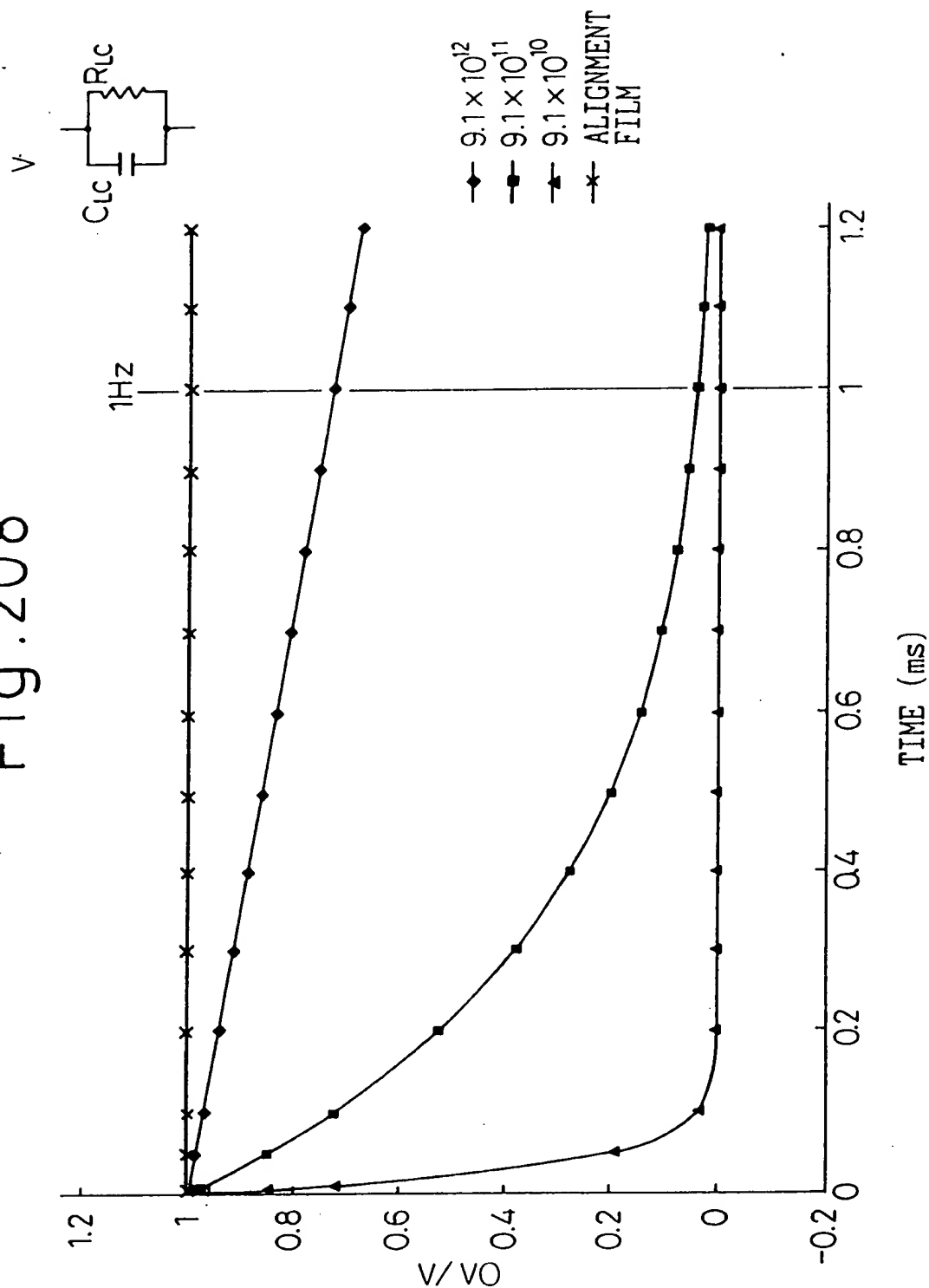
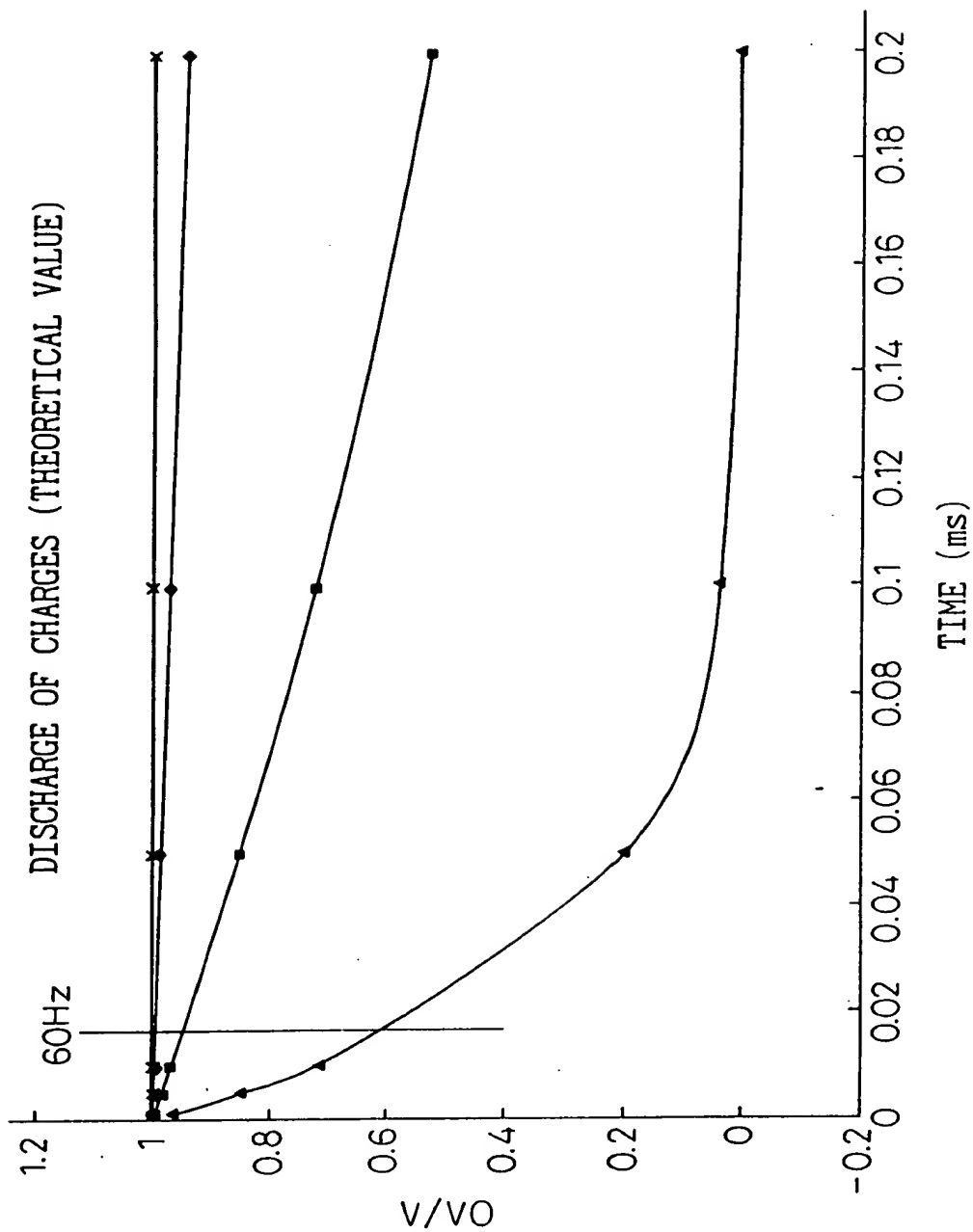


Fig. 208



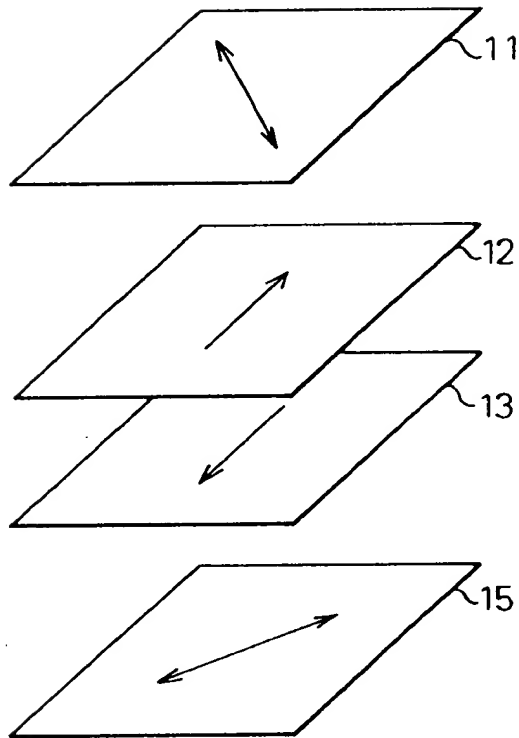
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Fig. 209



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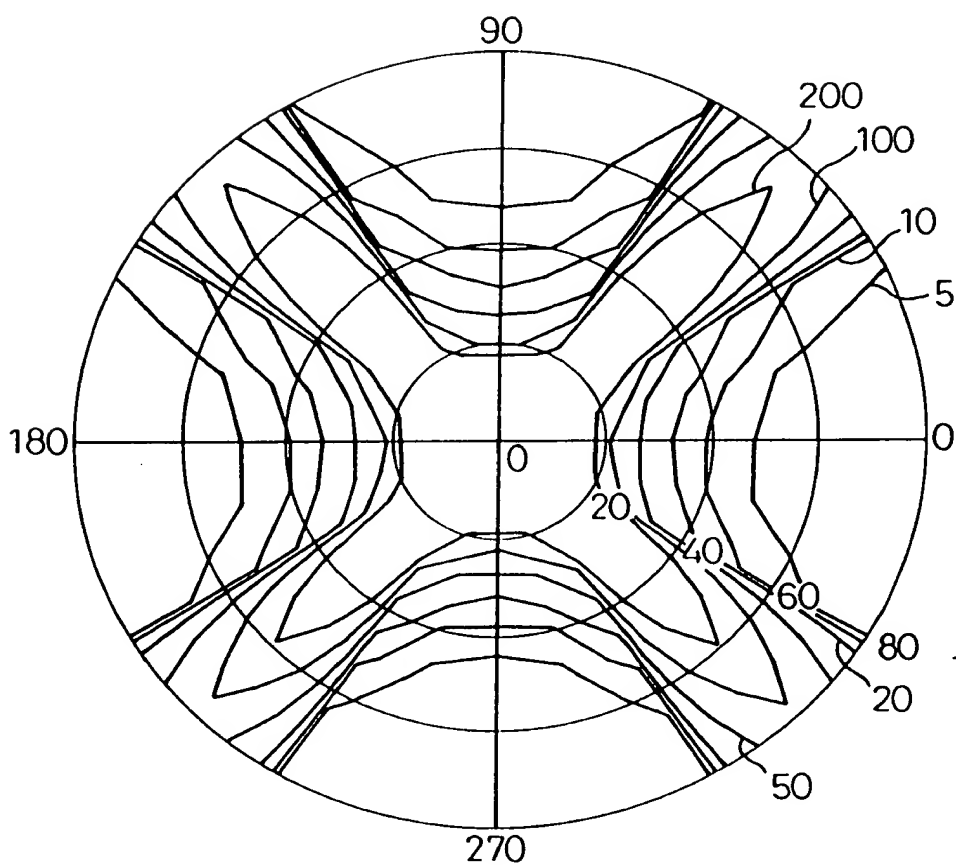
Fig. 210



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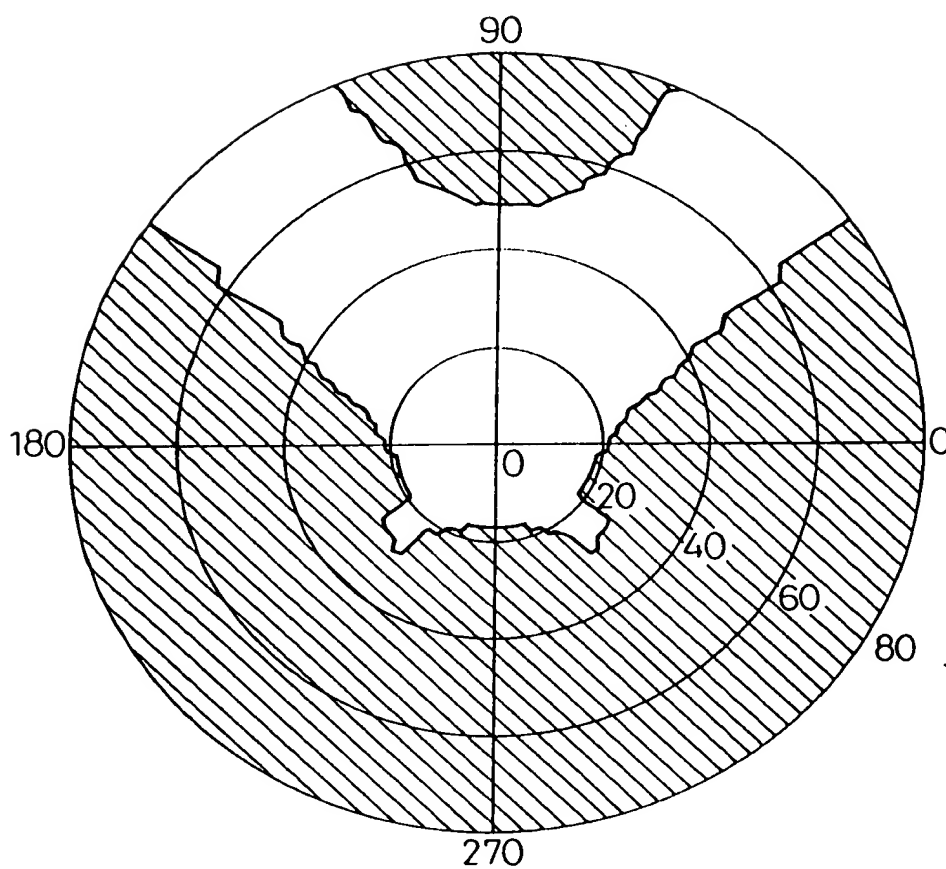
Fig. 211



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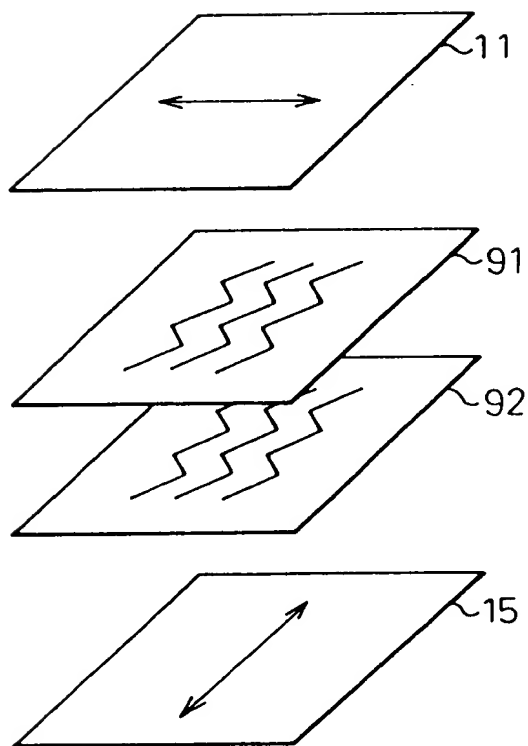
Fig .212



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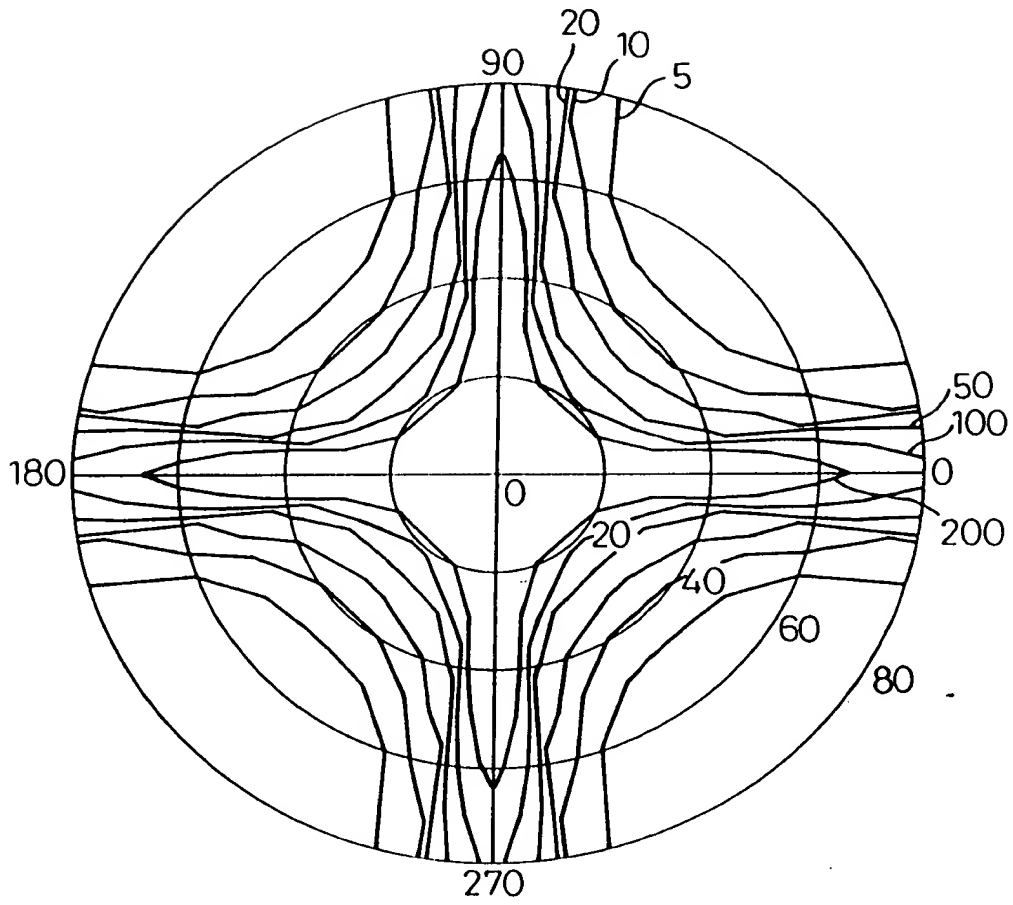
Fig. 213



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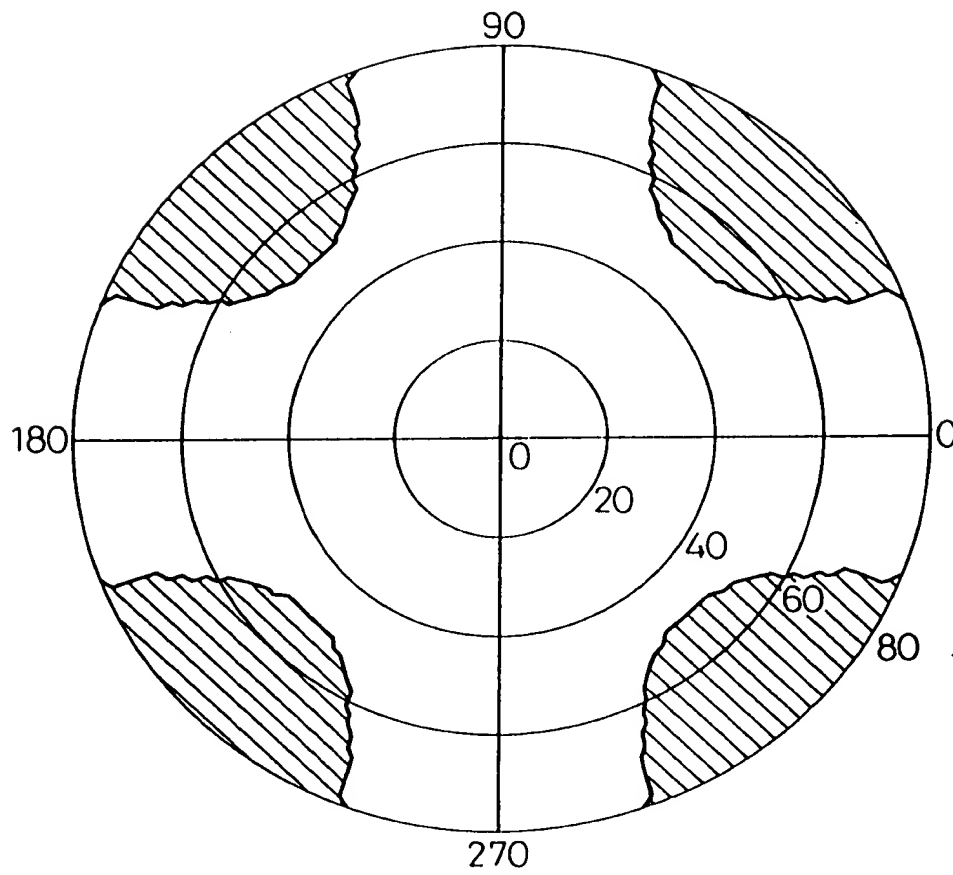
Fig. 214



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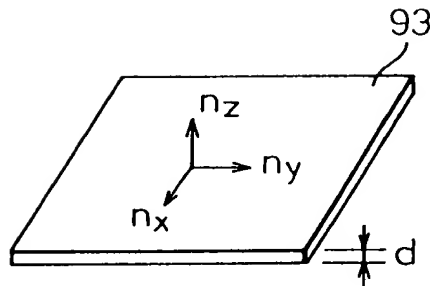
Fig. 215



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Fig.216



GENERAL CONDITION

$$n_x, n_y \geq n_z$$

POSITIVE UNIAXIAL FILM

$$n_x > n_y = n_z$$

NEGATIVE UNIAXIAL FILM

$$n_x = n_y > n_z$$

BIAXIAL FILM
(A PHASE LAG AXIS IS X DIRECTION.)

$$n_x > n_y > n_z$$

RETARDATION IN
INPLANE DIRECTIONS

$$R = (n_x - n_y)d$$

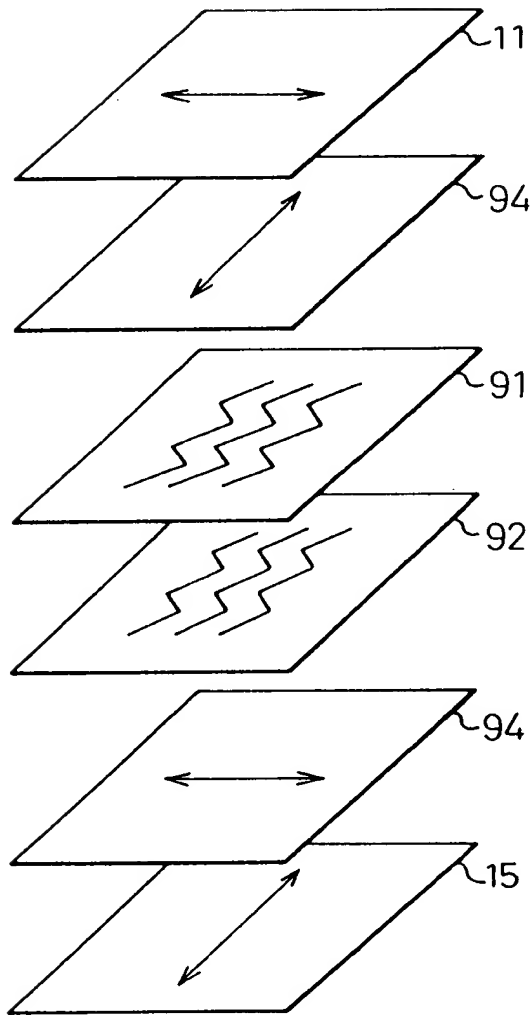
RETARDATION OF
THICKNESS DIRECTION

$$R = \left(\frac{n_x + n_y}{2} - n_z \right) d$$

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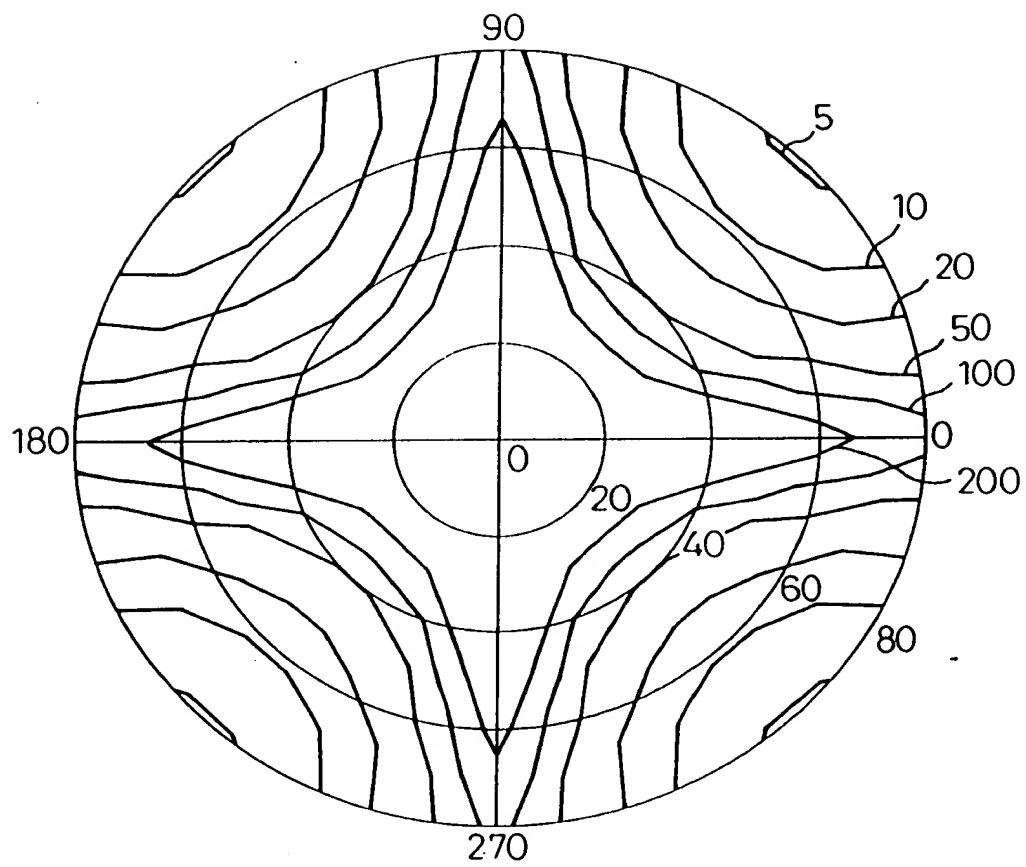
Fig. 217



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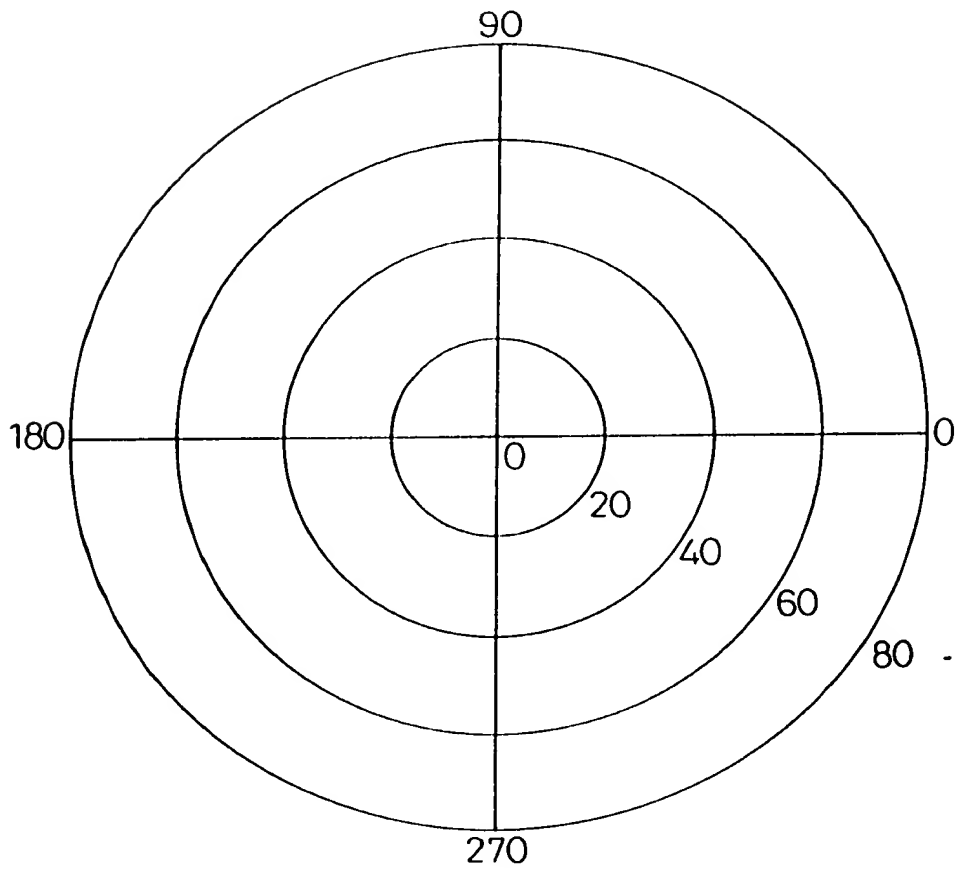
Fig.218



002107 8268960

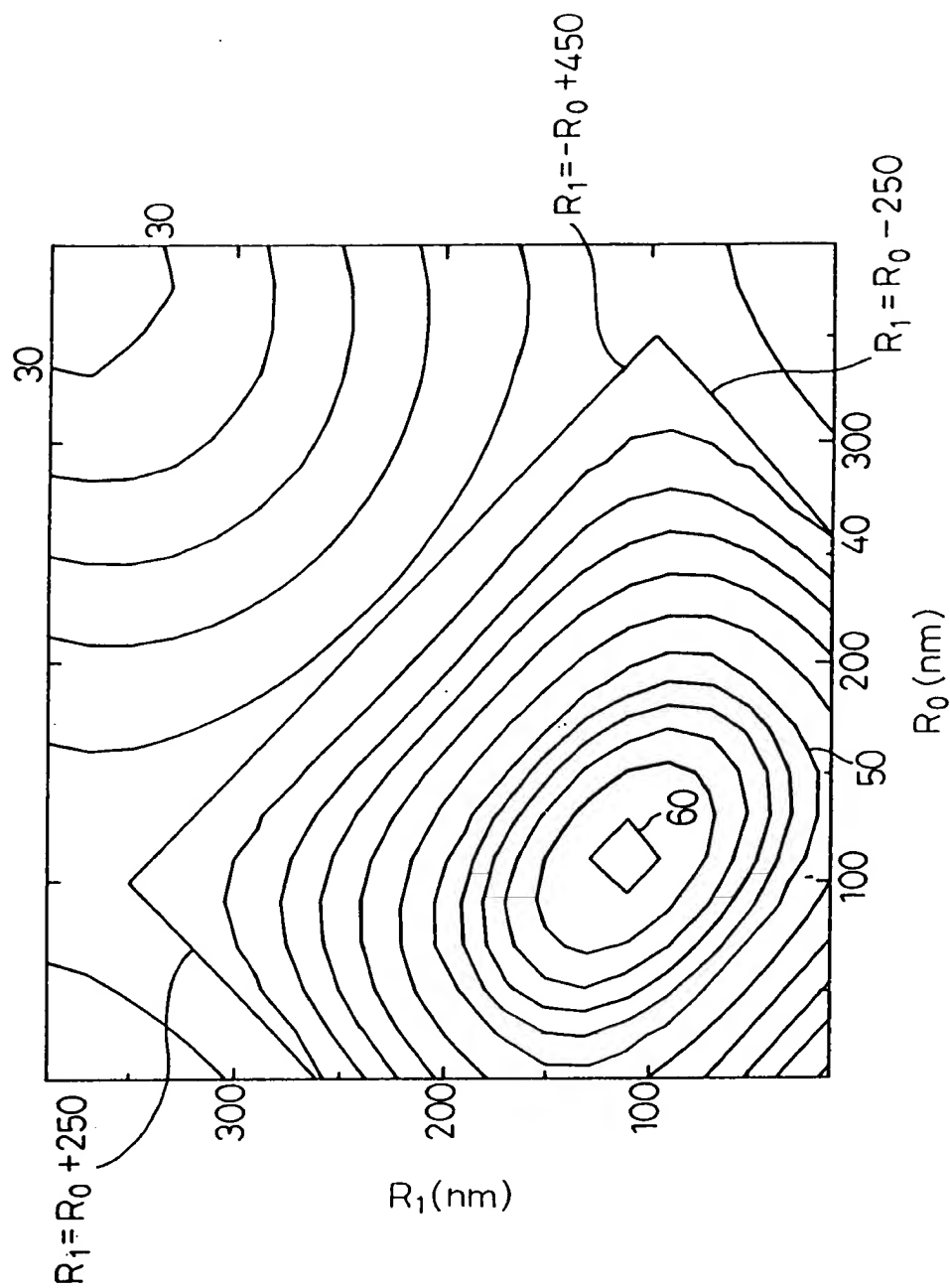
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Fig. 219



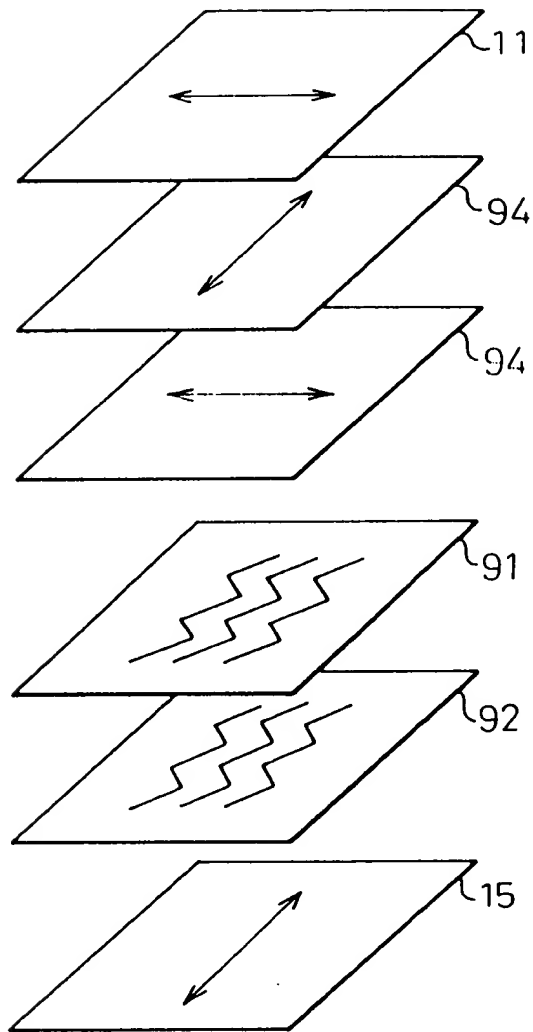
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Fig. 220

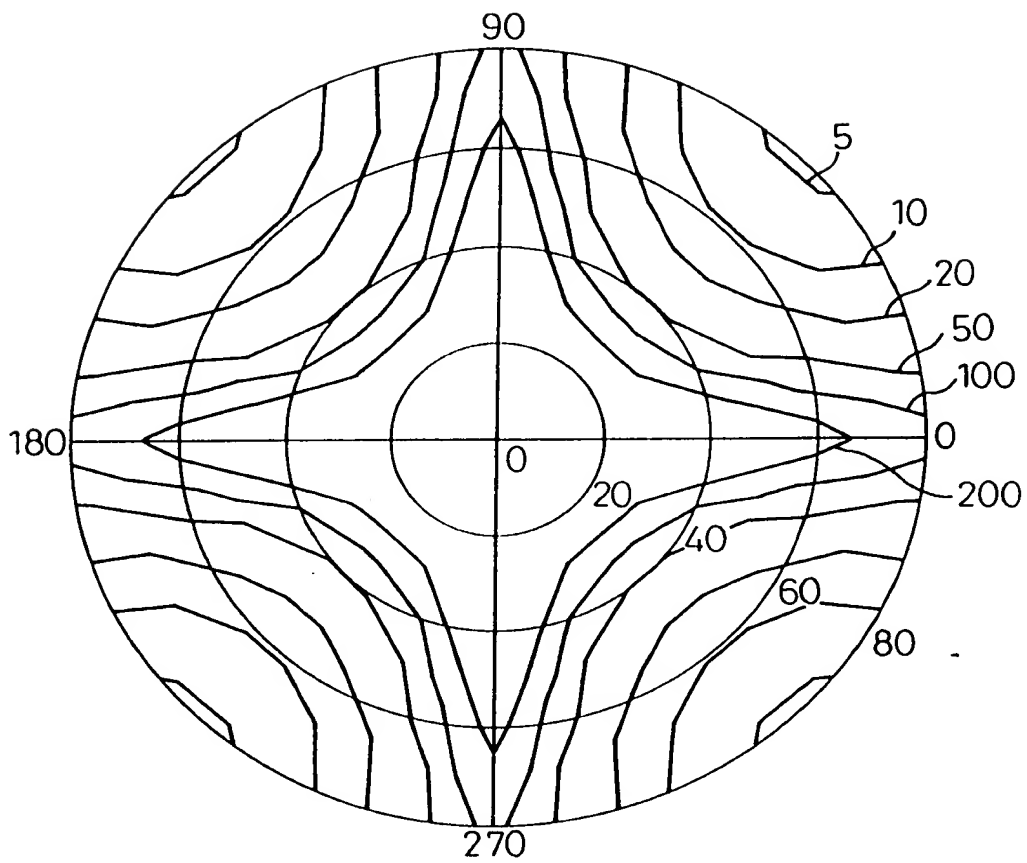


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Fig. 221



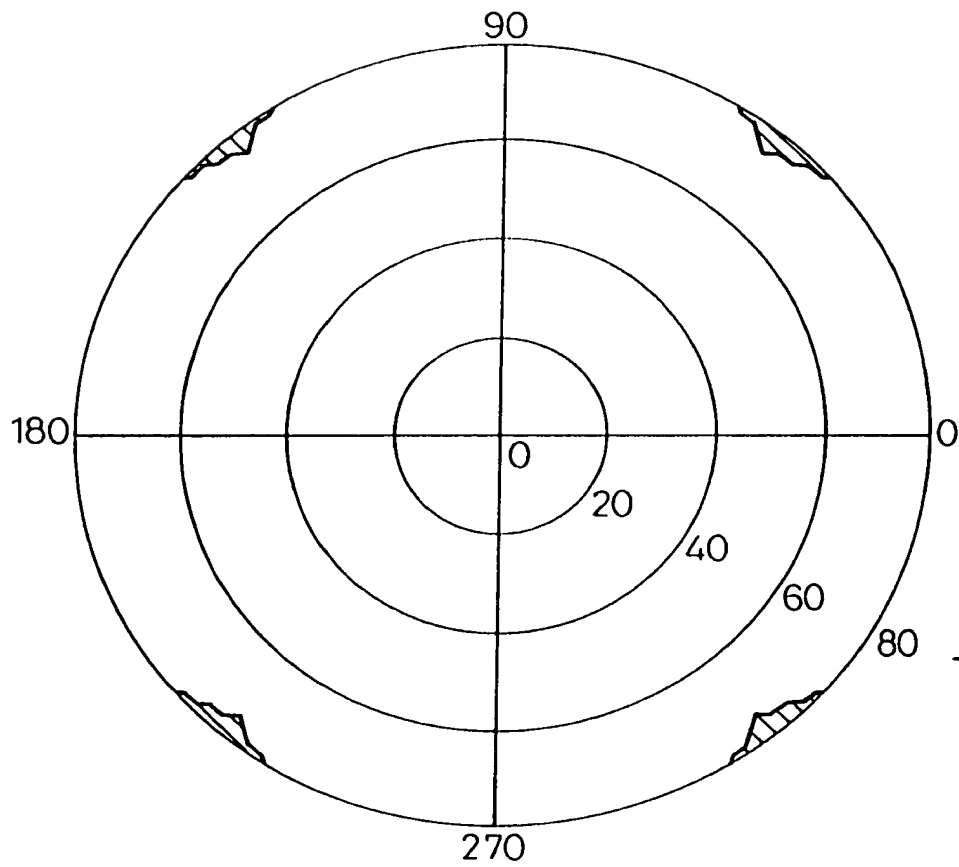
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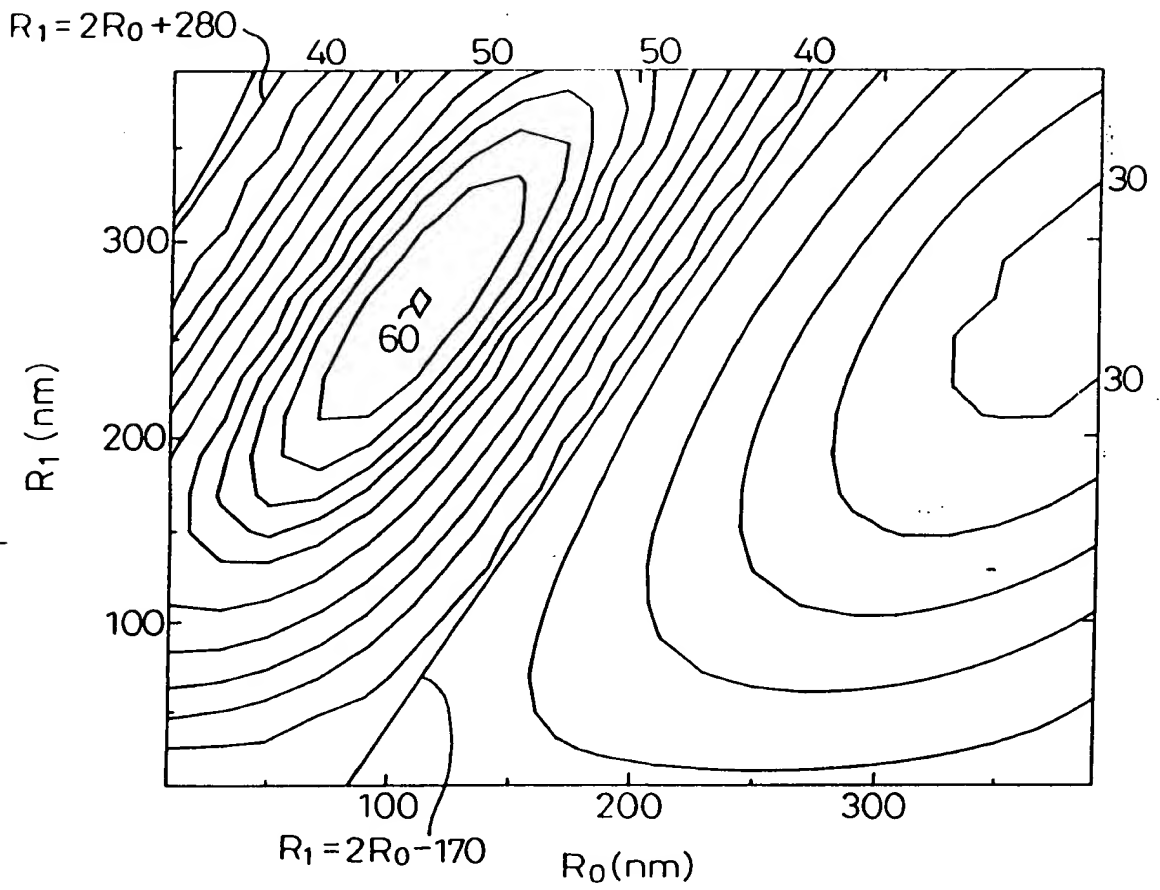
Fig. 223



0968928 101200

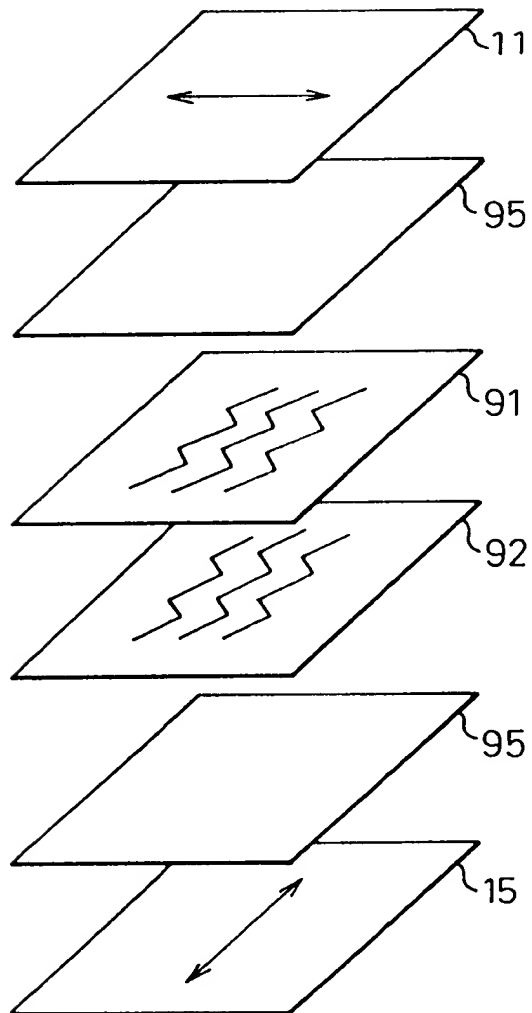
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Fig. 224



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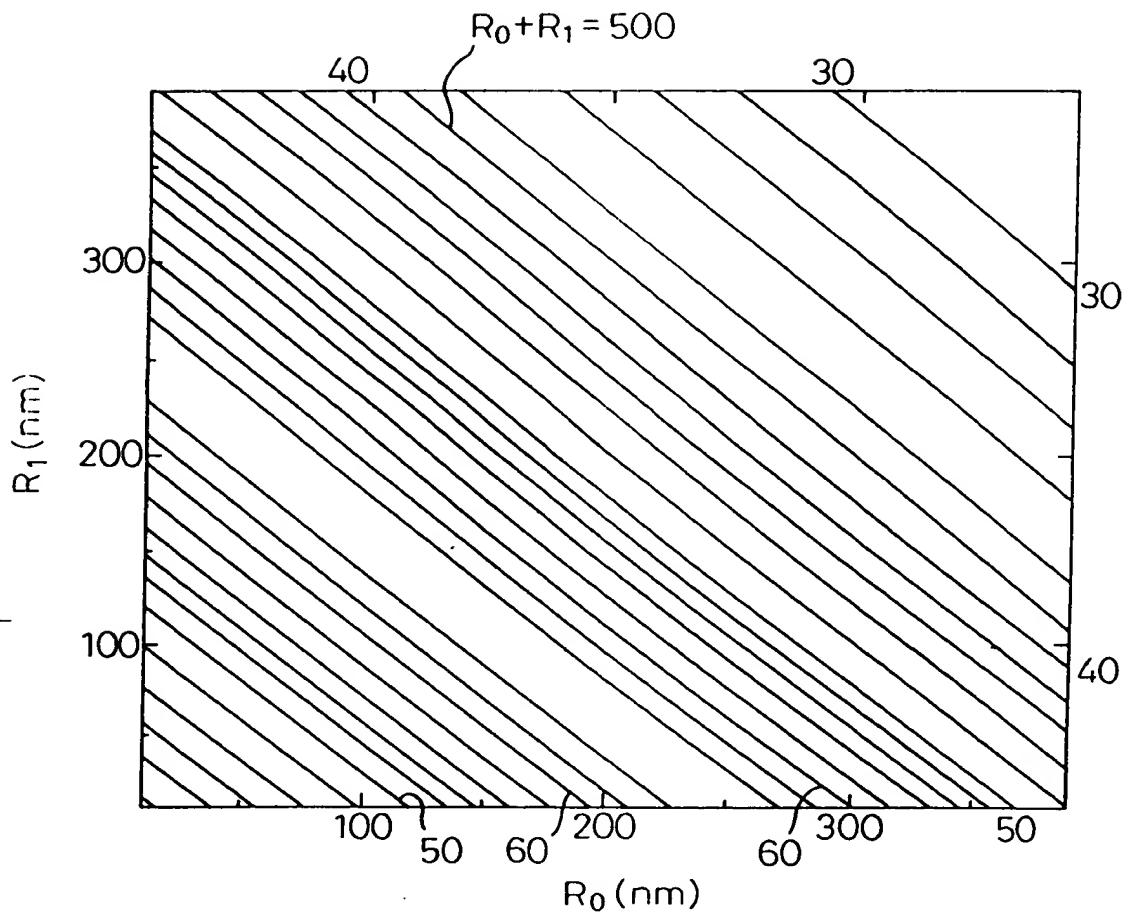
Fig. 225



0968992 82668960

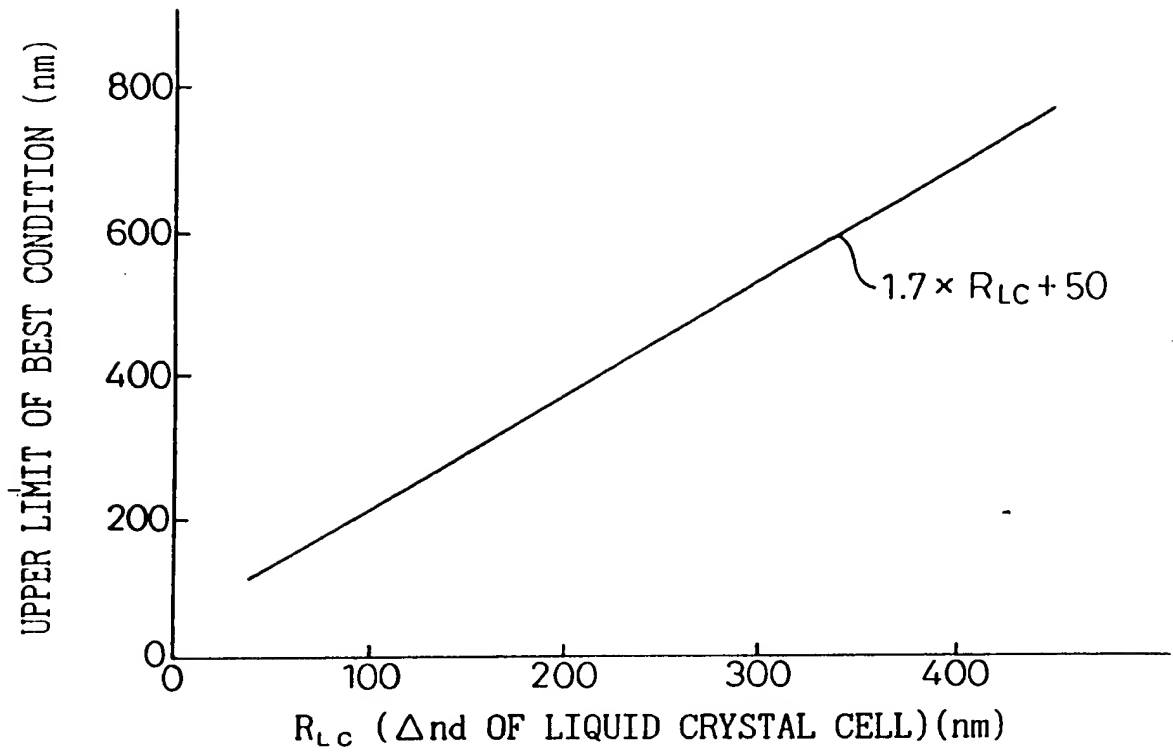
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Fig. 226



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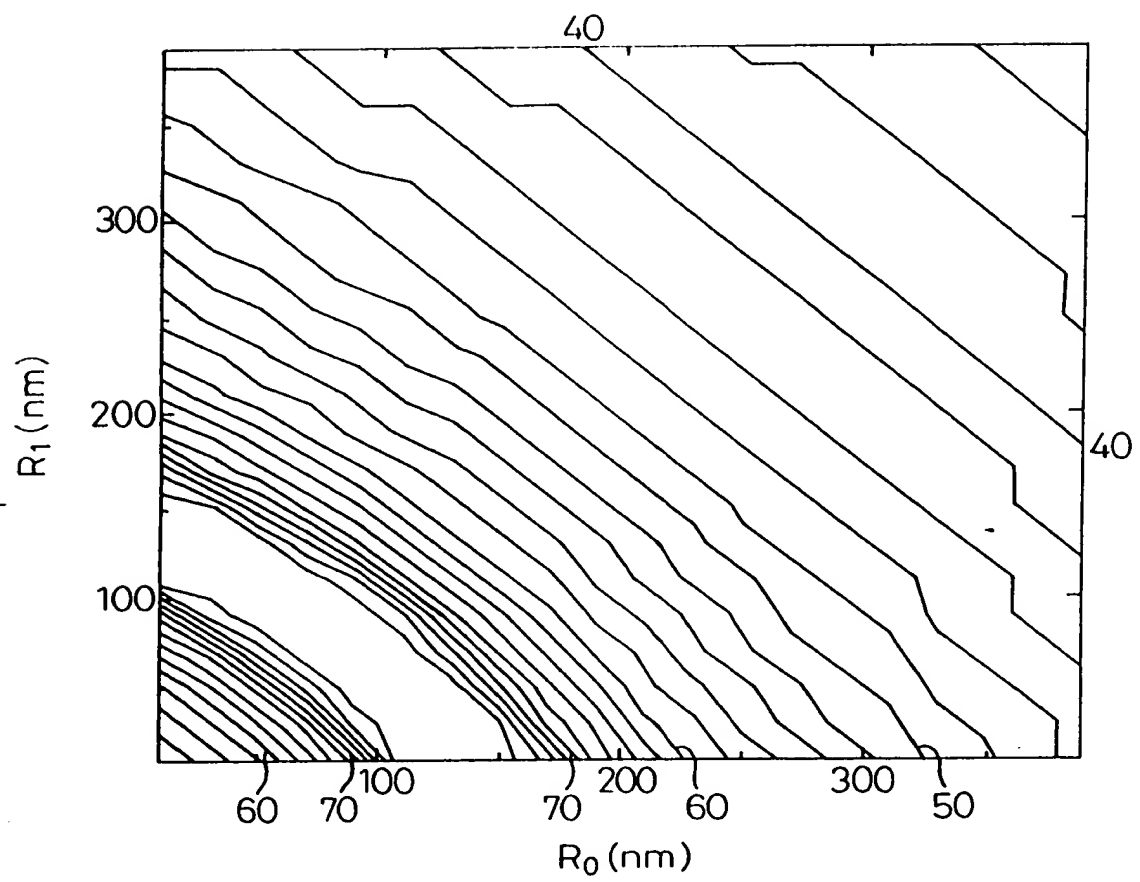
Fig .227



002107 82668960

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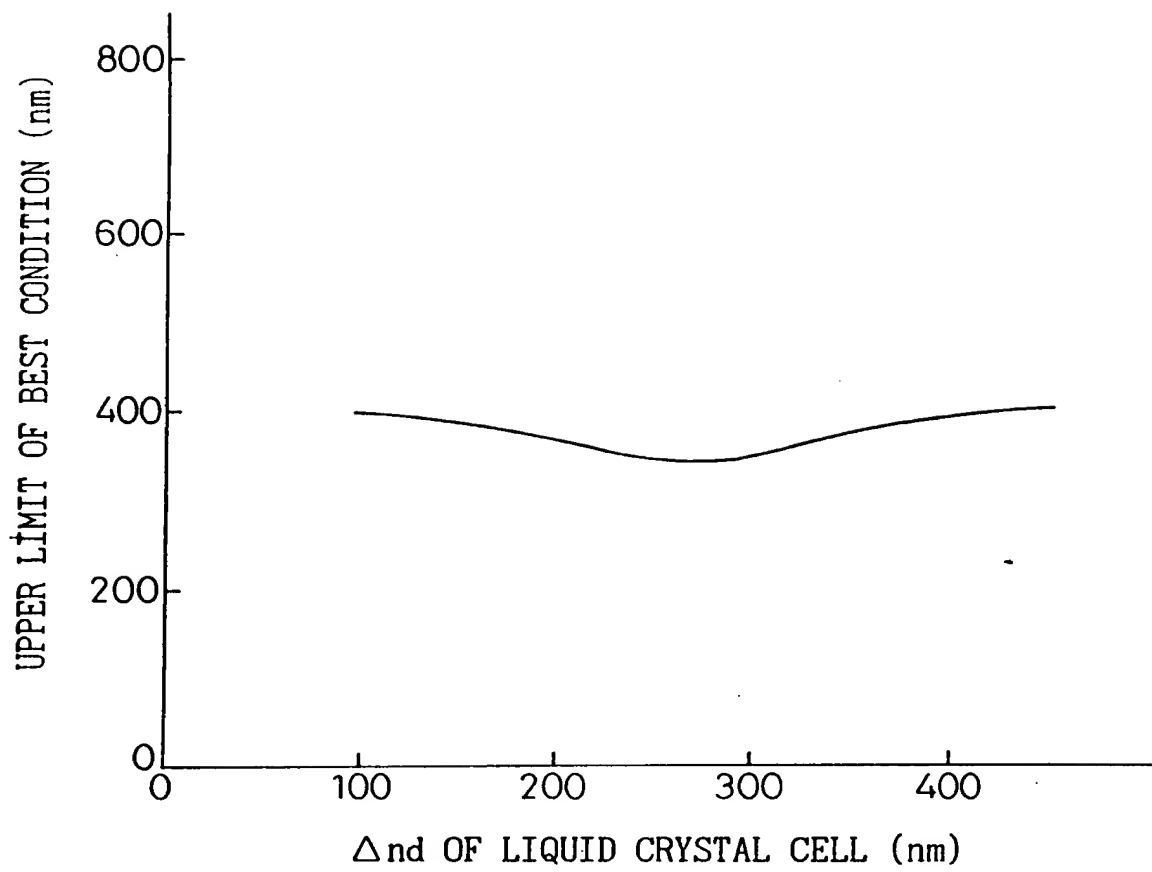
Fig.228



002101 82668960

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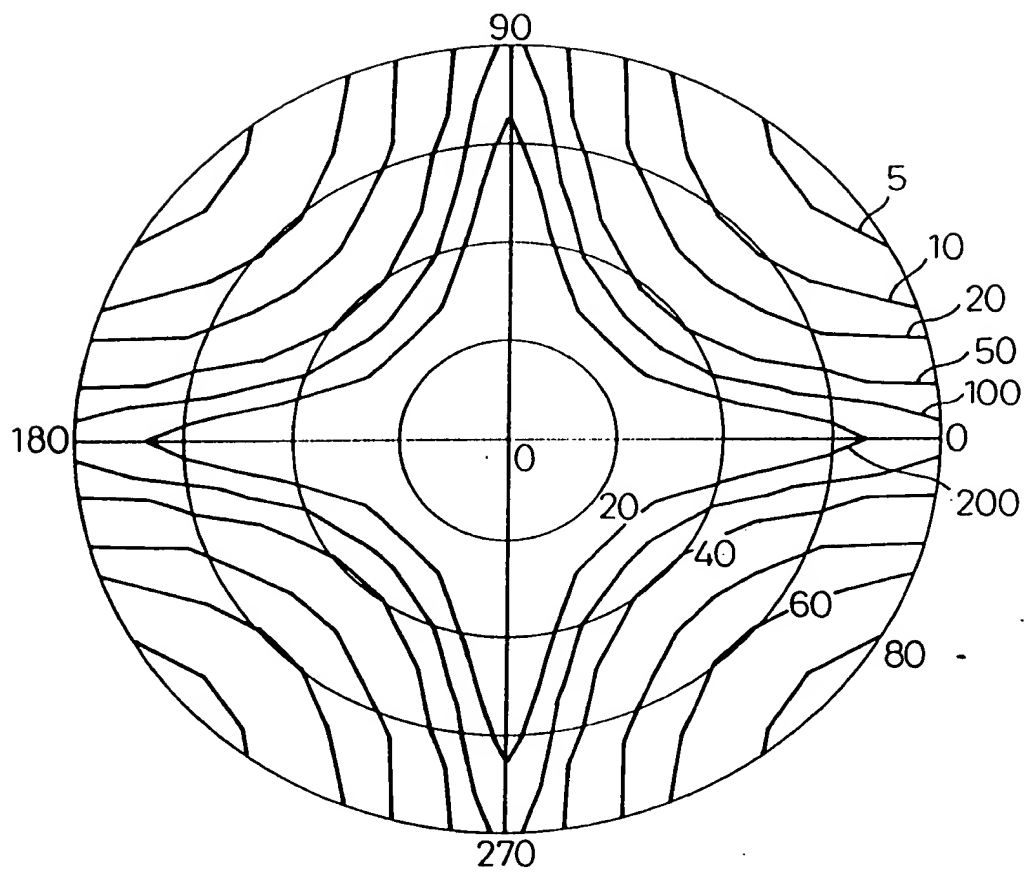
Fig .229



002101 82668960

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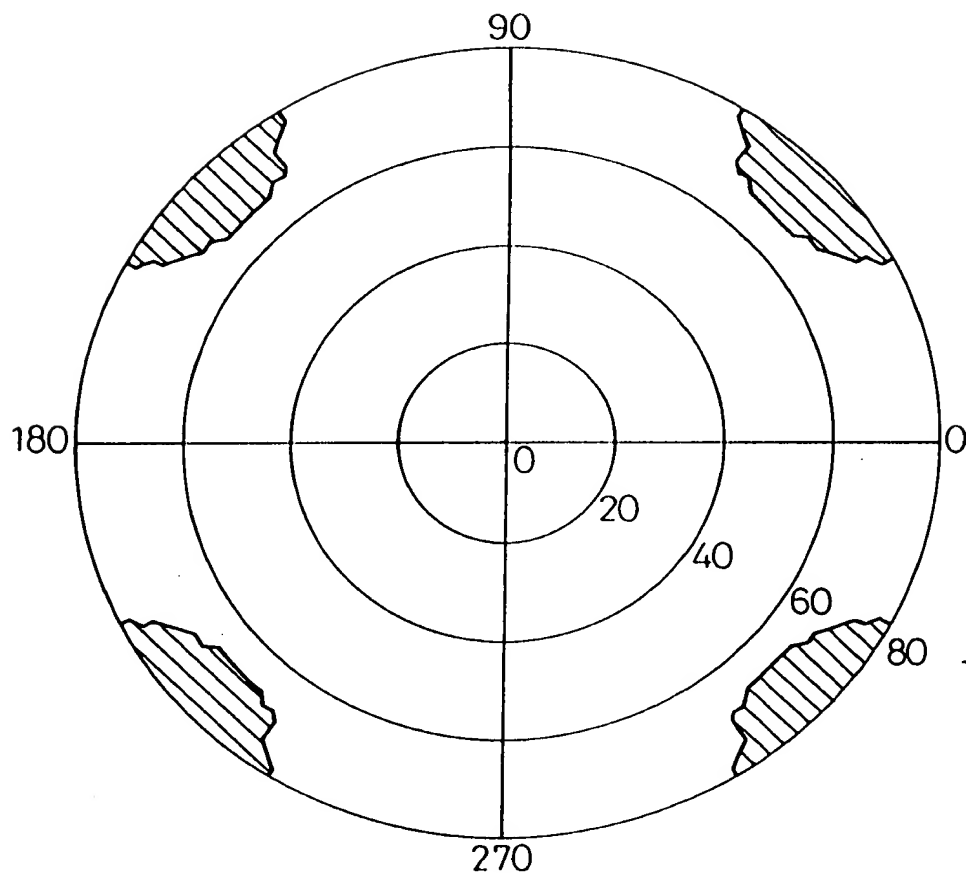
Fig. 230



002101 8268960

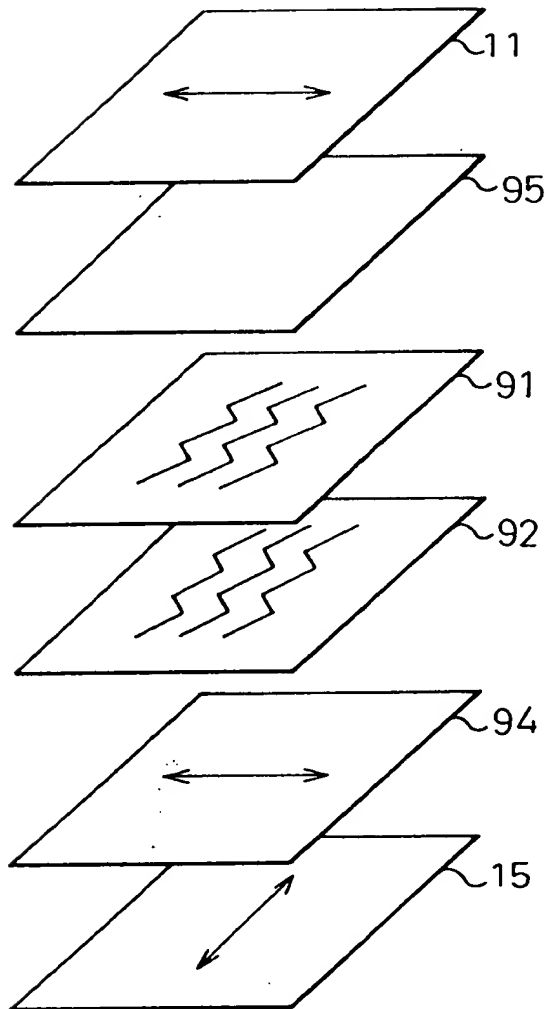
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Fig. 231



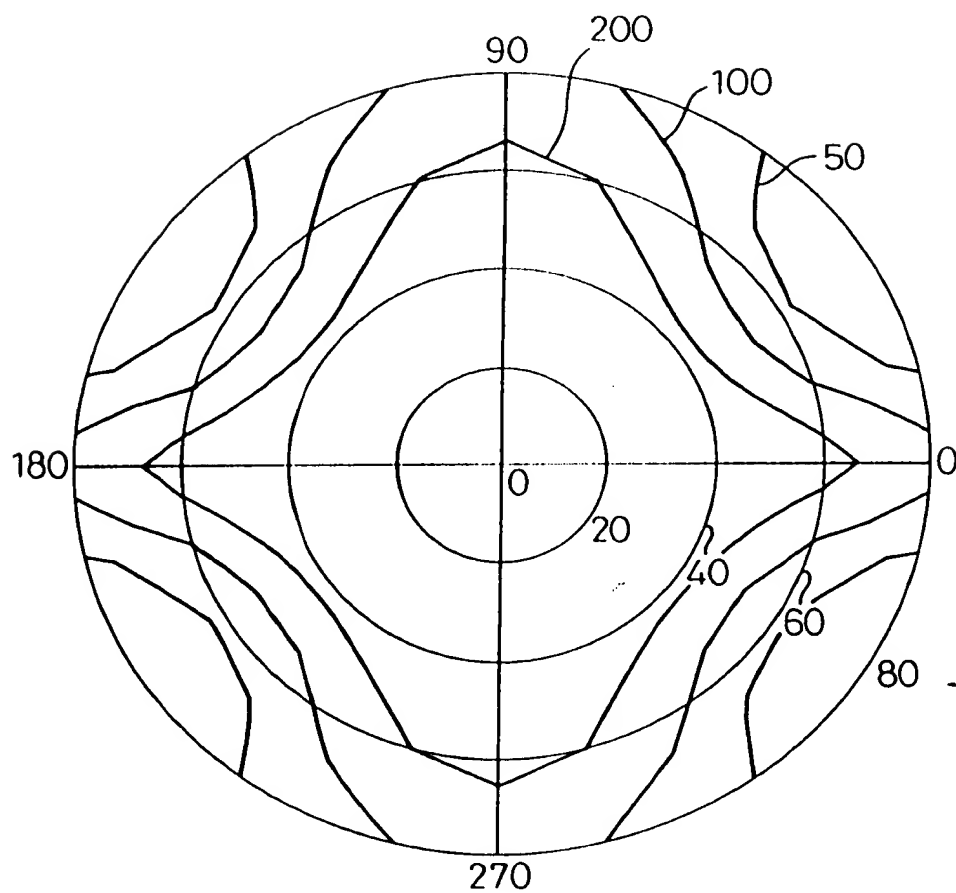
00240" 82668960

Fig. 232



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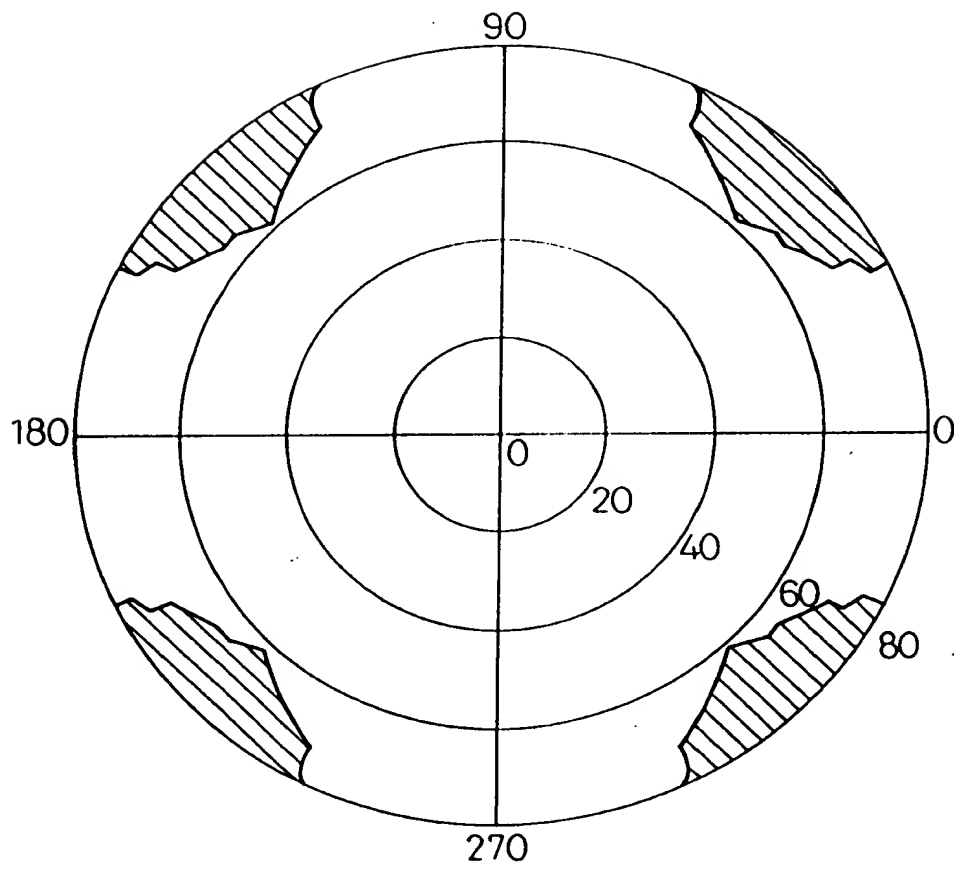
Fig. 233



002107 82668950

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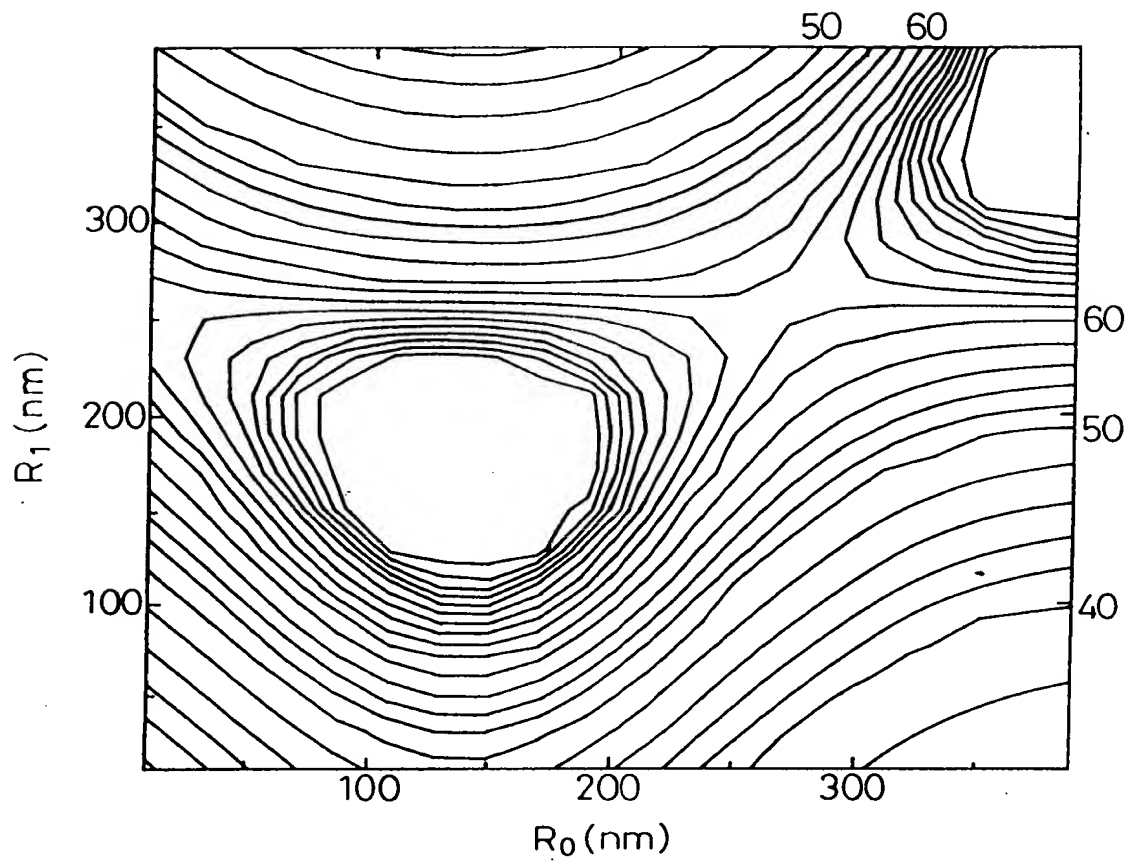
Fig. 234



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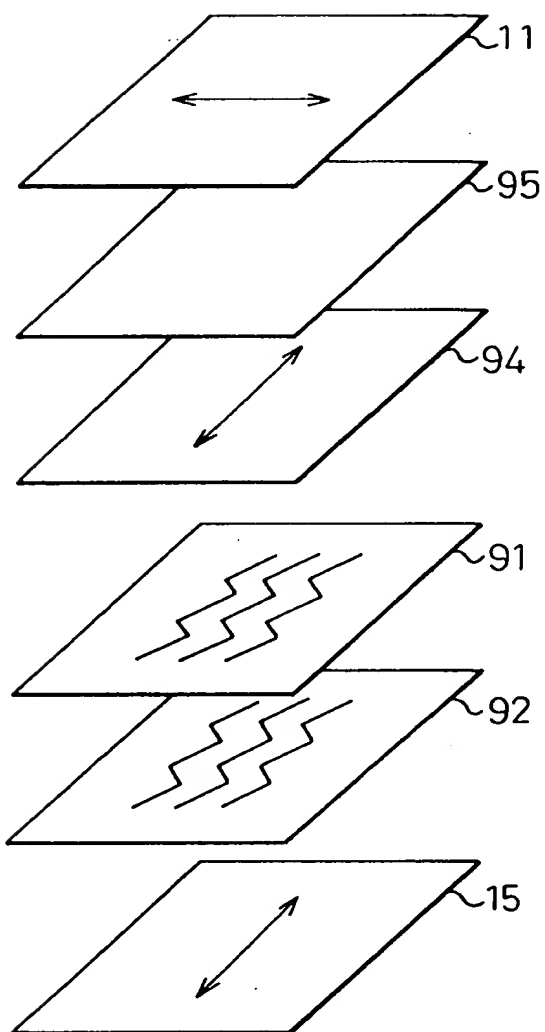
Fig. 235



002101" 82668960

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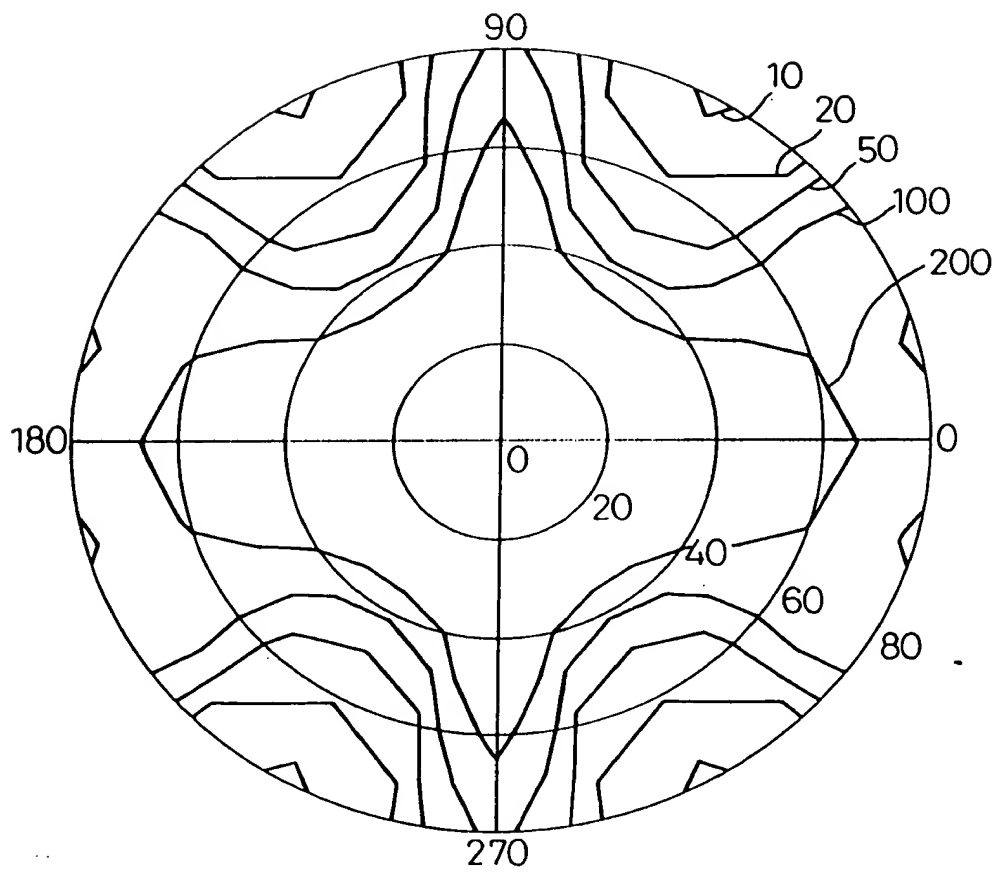
Fig. 236



002FOT" 82658960

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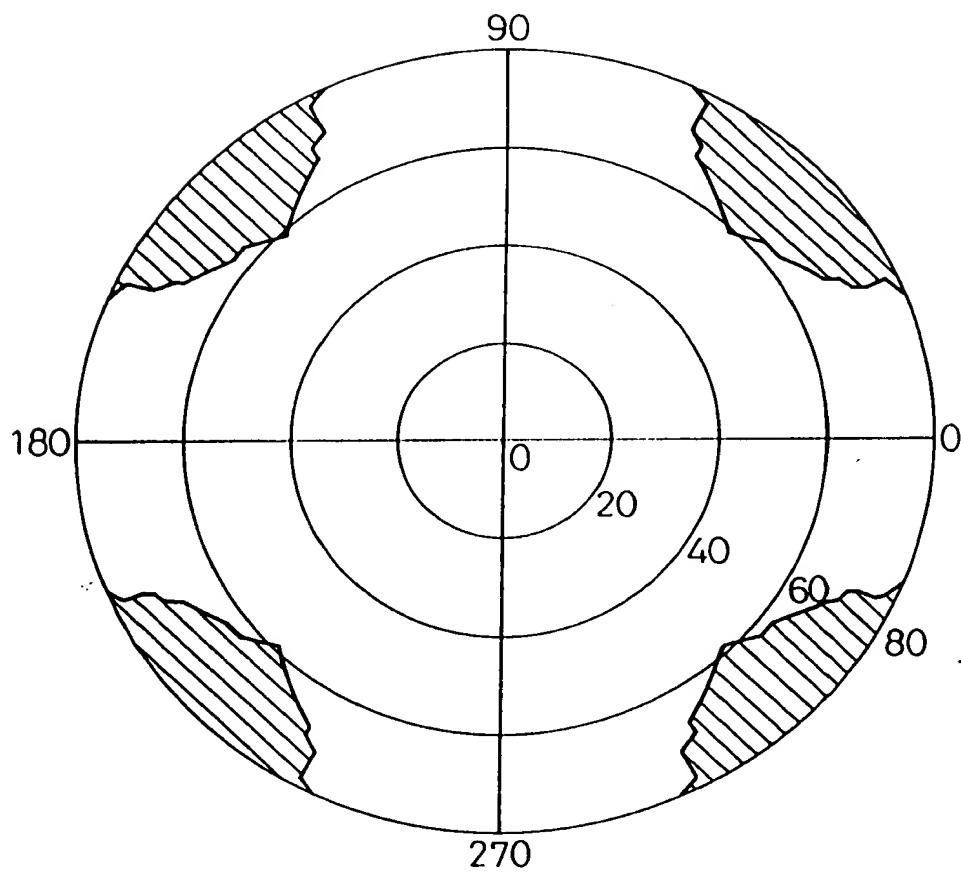
Fig. 237



002101 82668960

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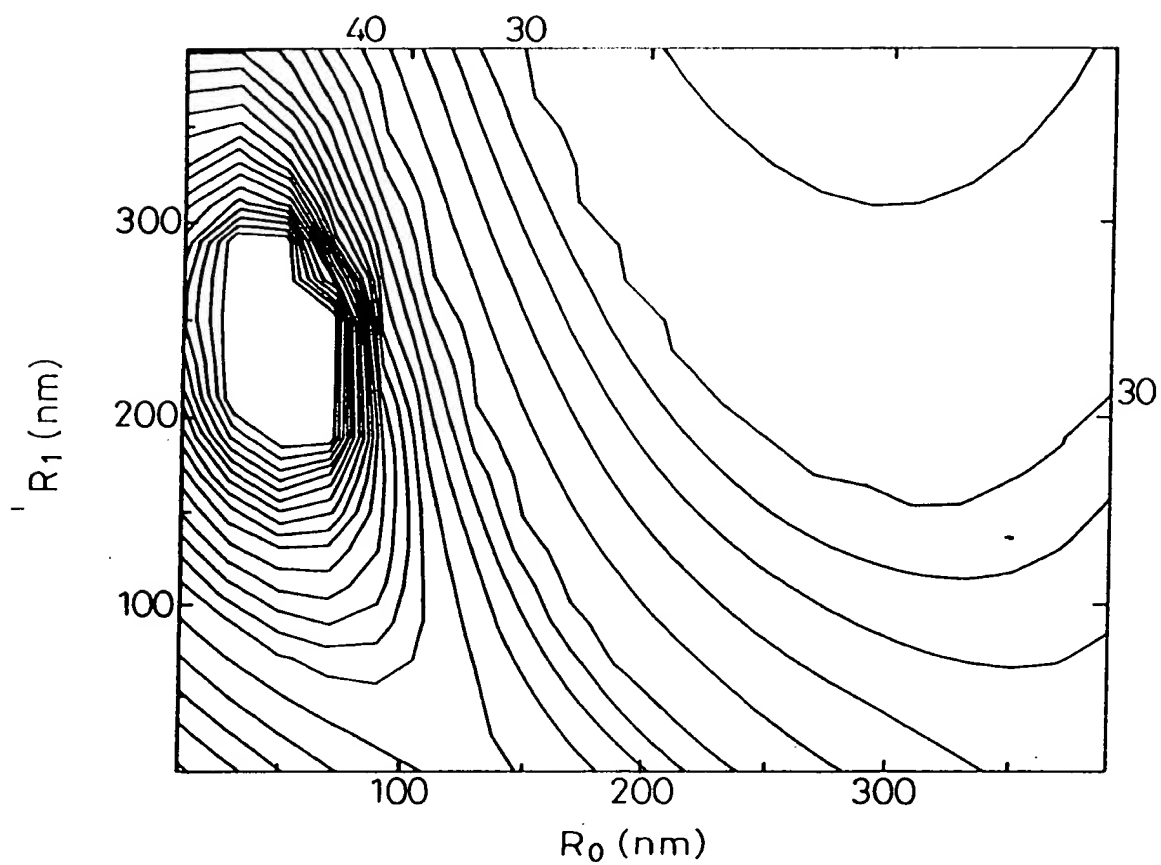
Fig. 238



002101 82658960

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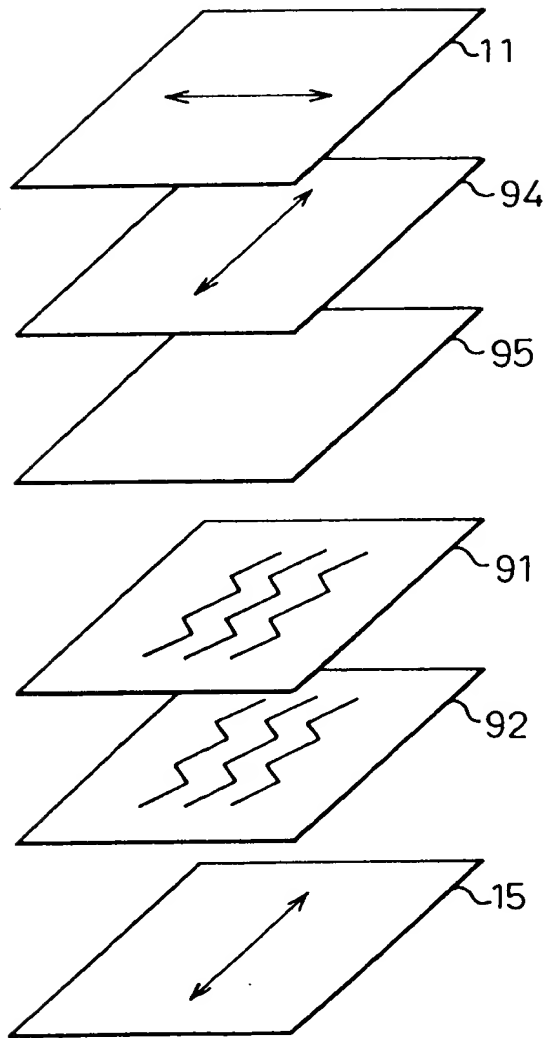
Fig. 239



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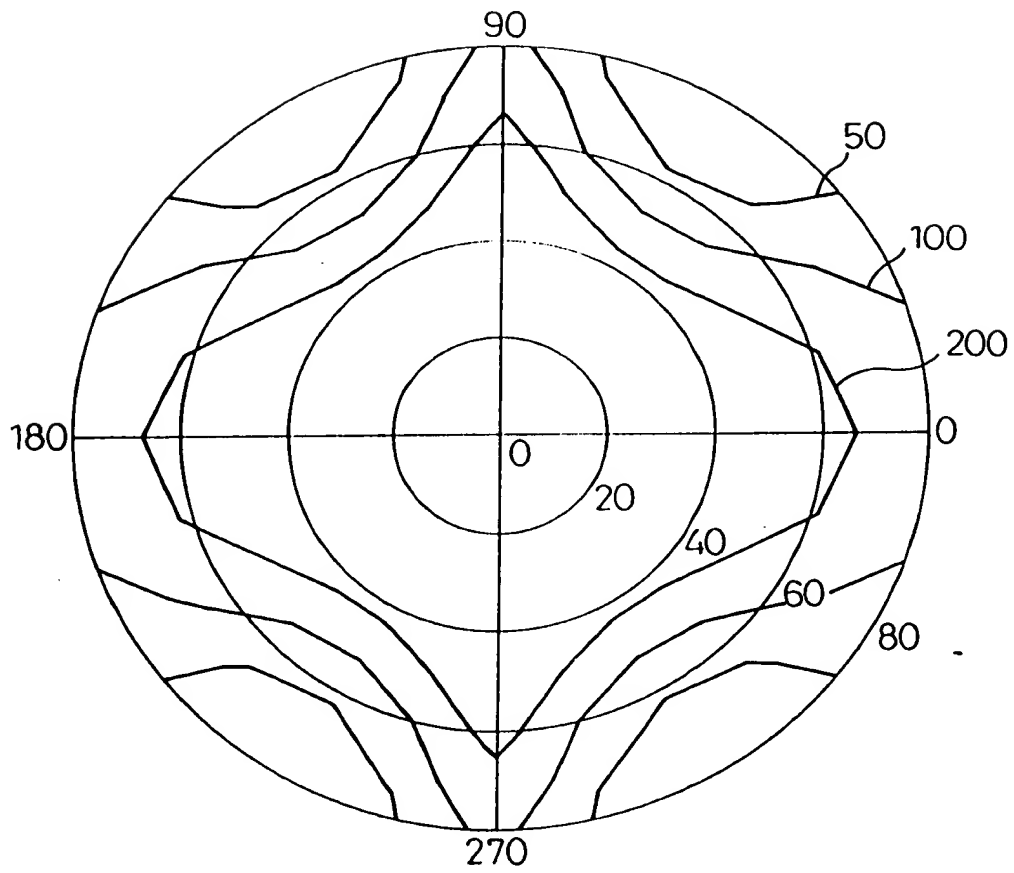
Fig. 240



002FOT" 82668960

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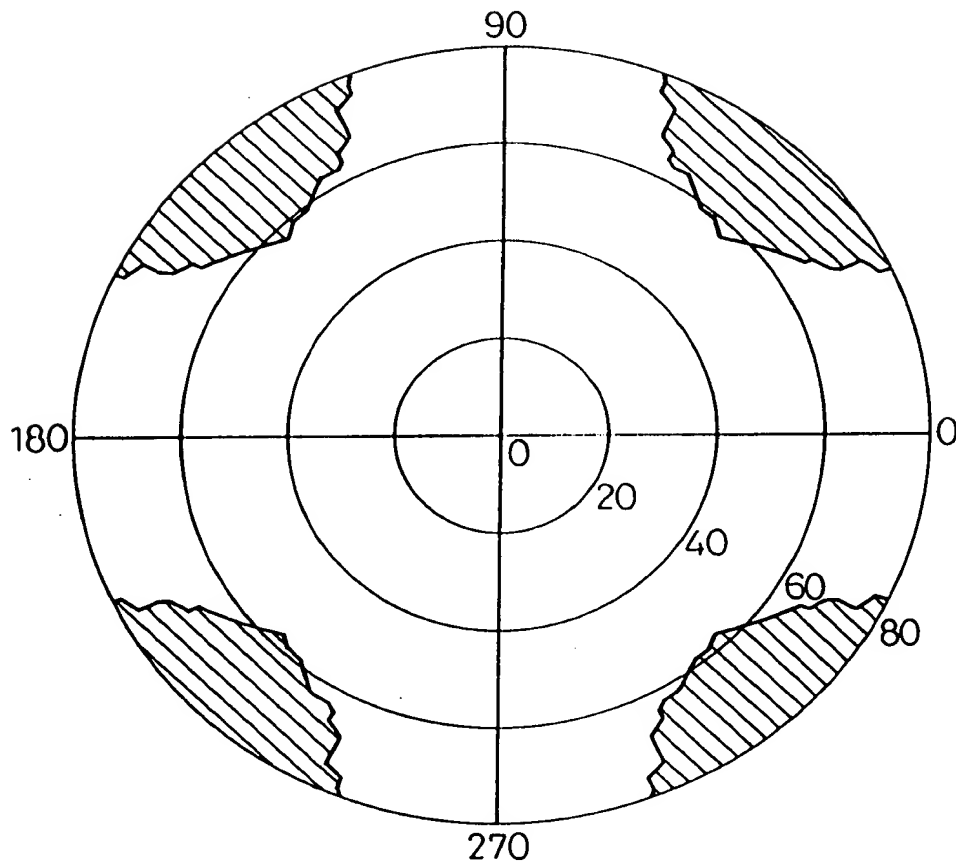
Fig. 241



002107 82668960

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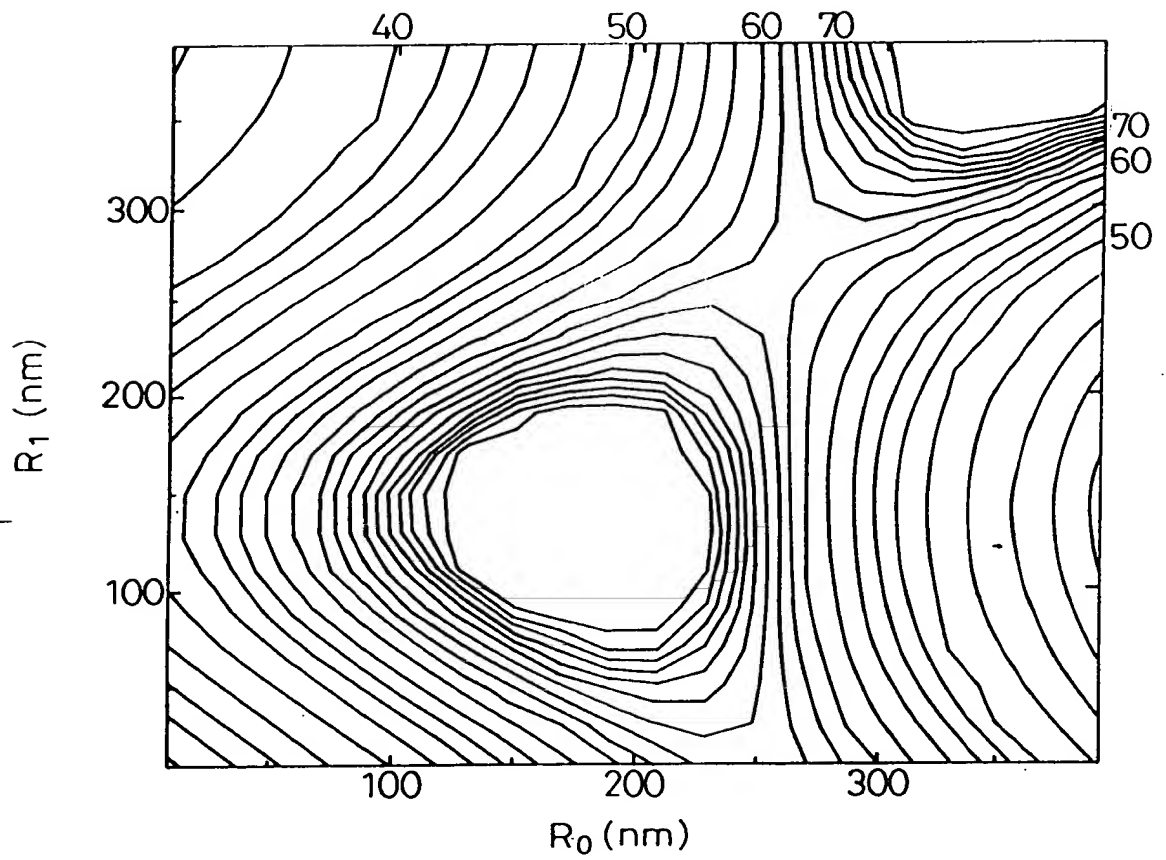
Fig. 242



002101 82663960

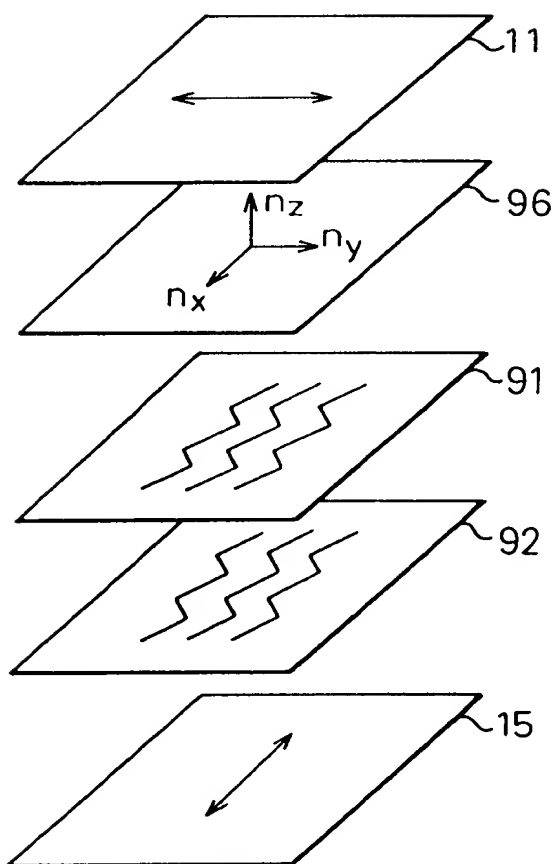
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Fig .243



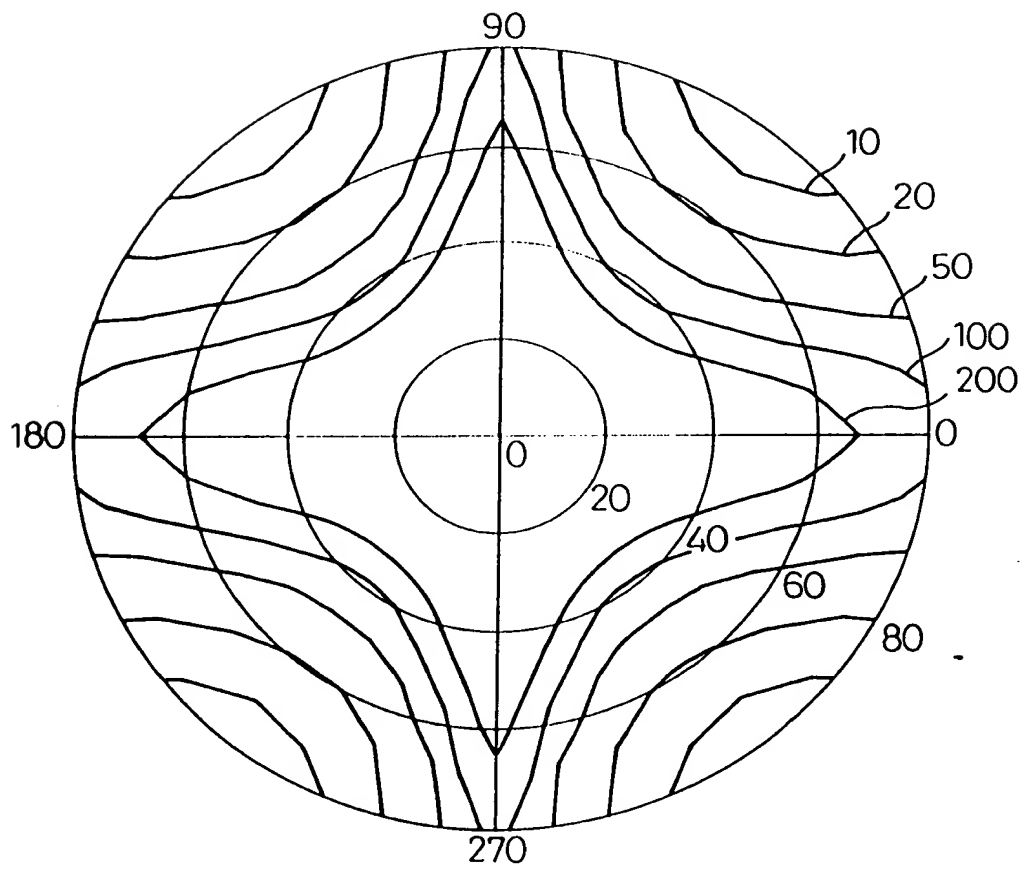
002707 22668960

Fig. 244



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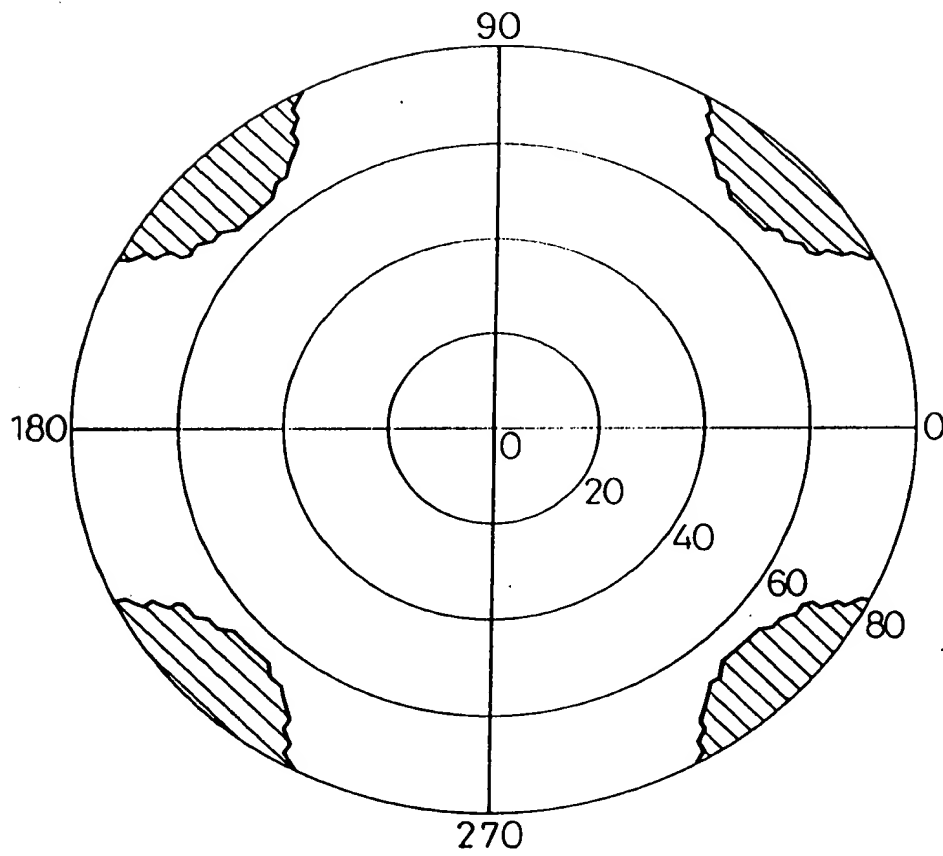
Fig. 245



002701" 82668960

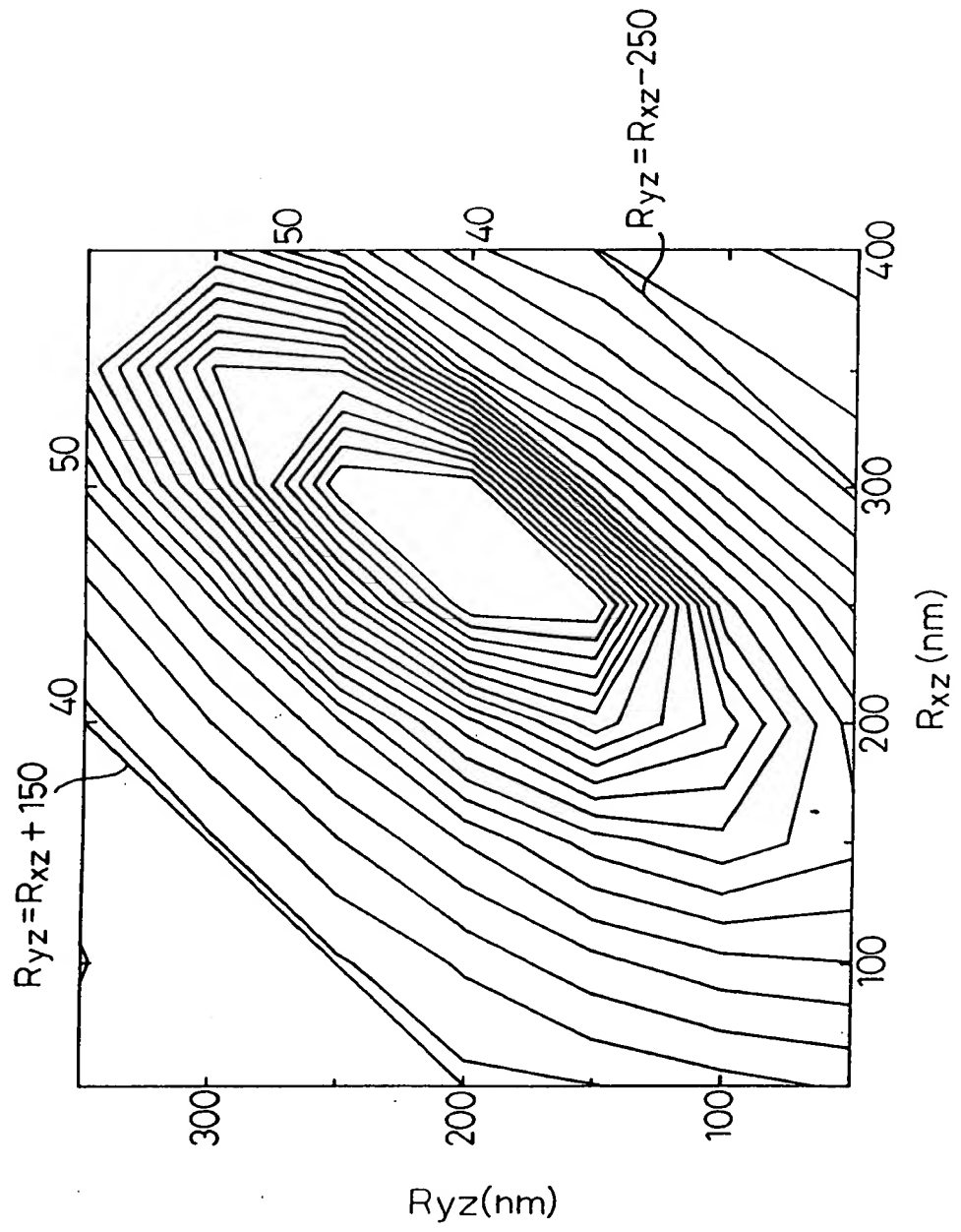
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Fig. 246



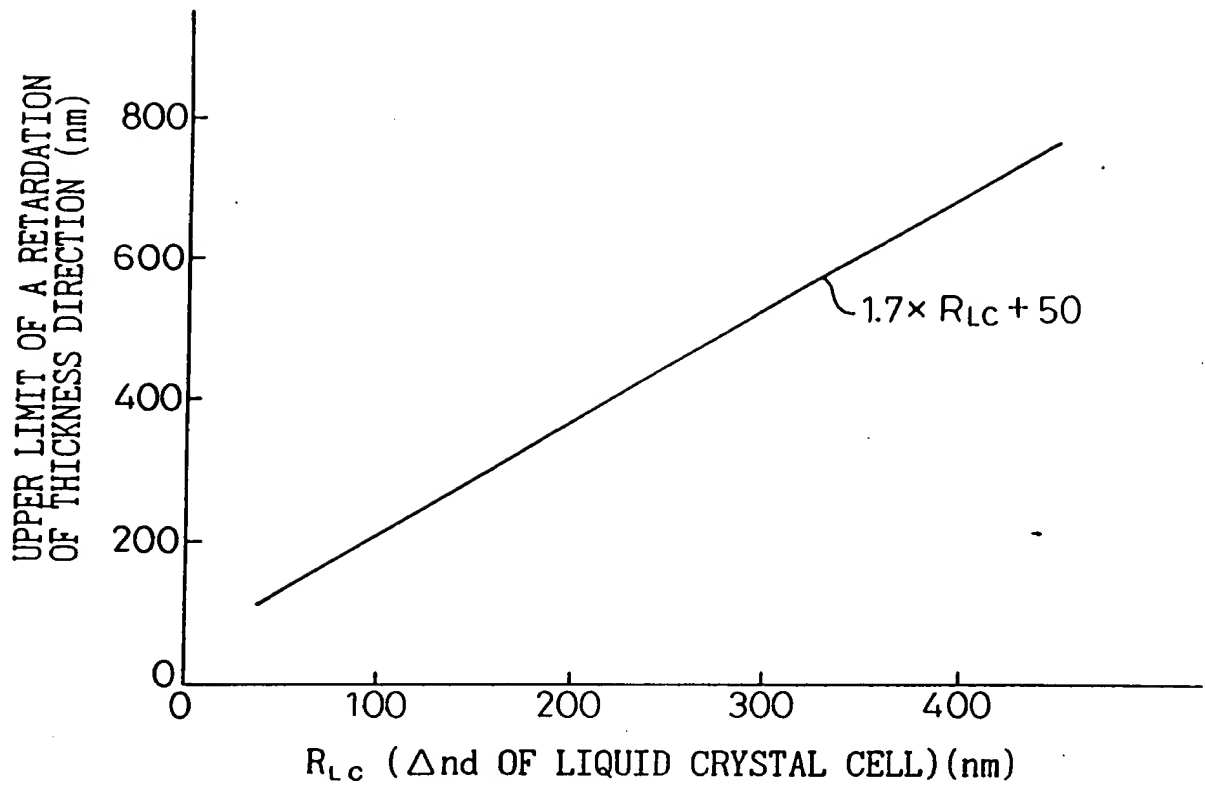
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Fig. 247



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Fig. 248



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Fig. 249

SAMPLE	THICKNESS OF A PANEL (μm) R G B	GAP BETWEEN PROJECTIONS (μm) R G B	PHASE DIFFERENCE FILM Rd VALUE (nm)	TRANS- MITTANCE % (5v)	VIEW ANGLE : CR > 10 LEFT-RIGHT DIRECTION	COLOR DIFFERENCE (5v: LEFT -RIGHT) $\Delta u(x)$ $\Delta v(y)$
EMBODIMENT A	5.7, 4.6, 3.6	20, 25, 30	320	5.60	$\pm 80^\circ$	0.03 0.03
EMBODIMENT B	5.7, 4.6, 3.6	20, 25, 30	320	5.60	$\pm 80^\circ$	0.03 0.05
PRIOR ART 1	R, G, B=3.6	R, G, B=30	240	4.50	$\pm 80^\circ$	0.06 0.05
PRIOR ART 2	R, G, B=4.6	R, G, B=30	320	5.80	$\pm 80^\circ$	0.14 0.12

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Fig. 250

EXAMPLES	INITIAL VALUES	AFTER 200 HOURS
EMBODIMENT C	25	42
EMBODIMENT D	33	51
EMBODIMENT E	26	45
EMBODIMENT F	30	48
REFERENCE	32	70

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Fig.251A

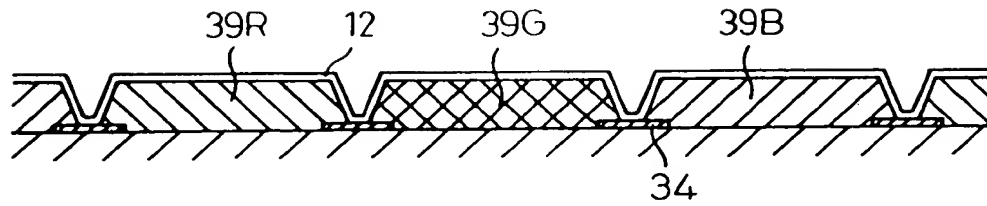


Fig.251B

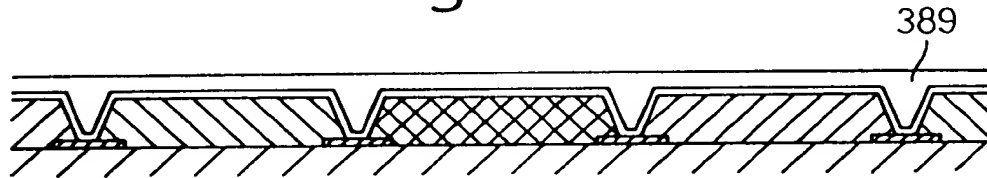


Fig.251C

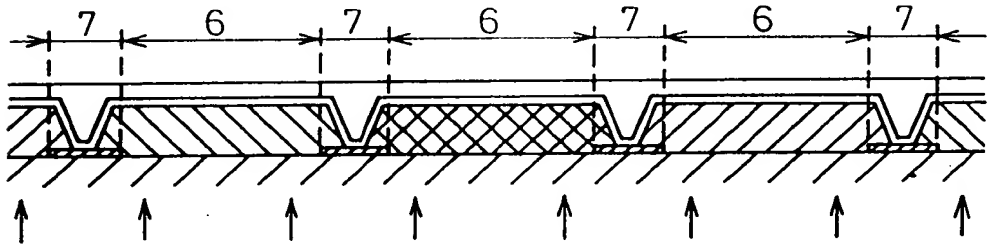
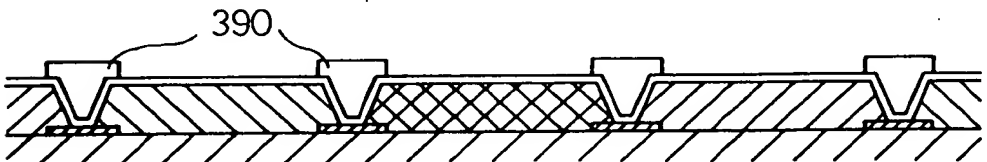


Fig.251D



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Fig. 252A

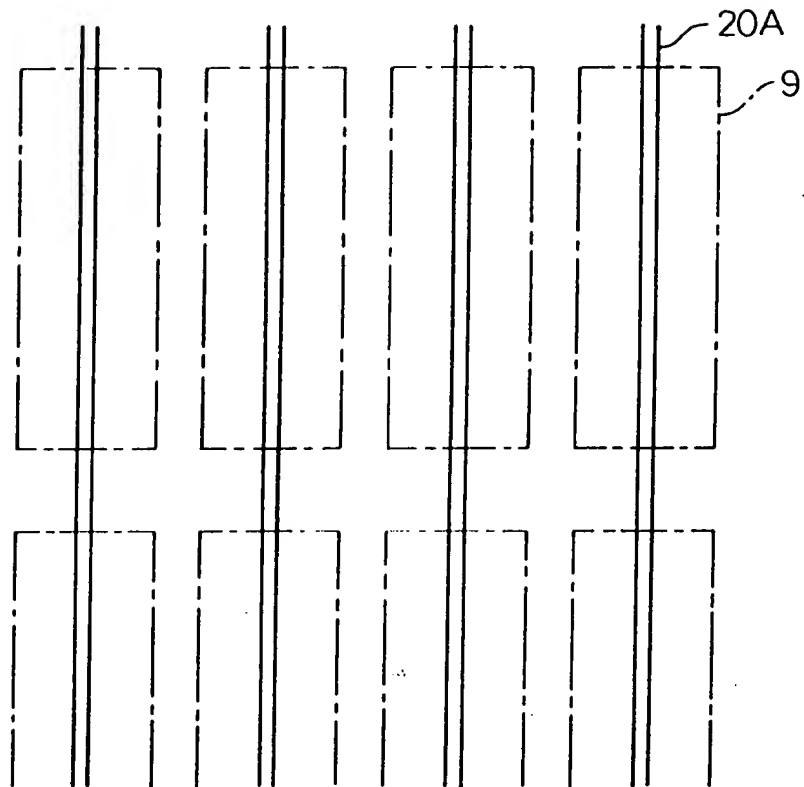
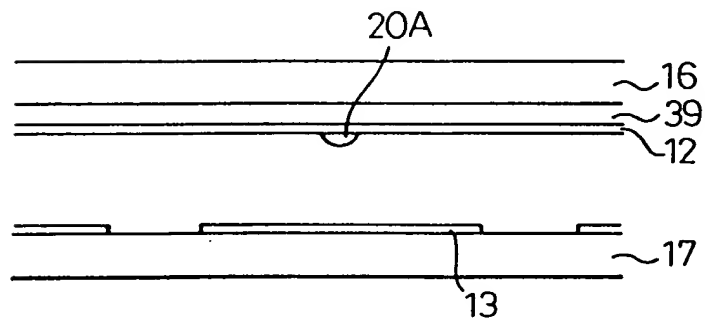
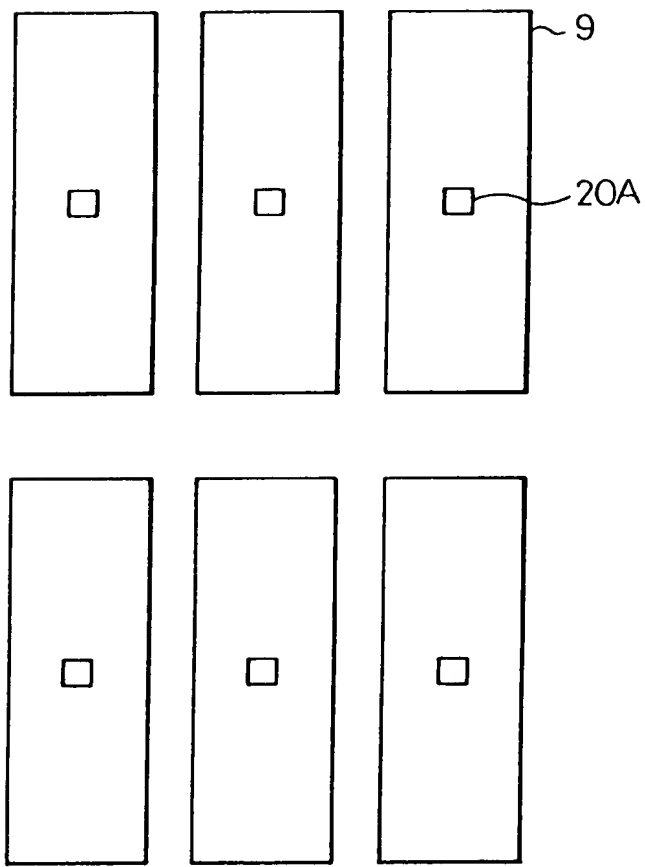


Fig. 252B



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Fig . 253



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Fig. 254 A

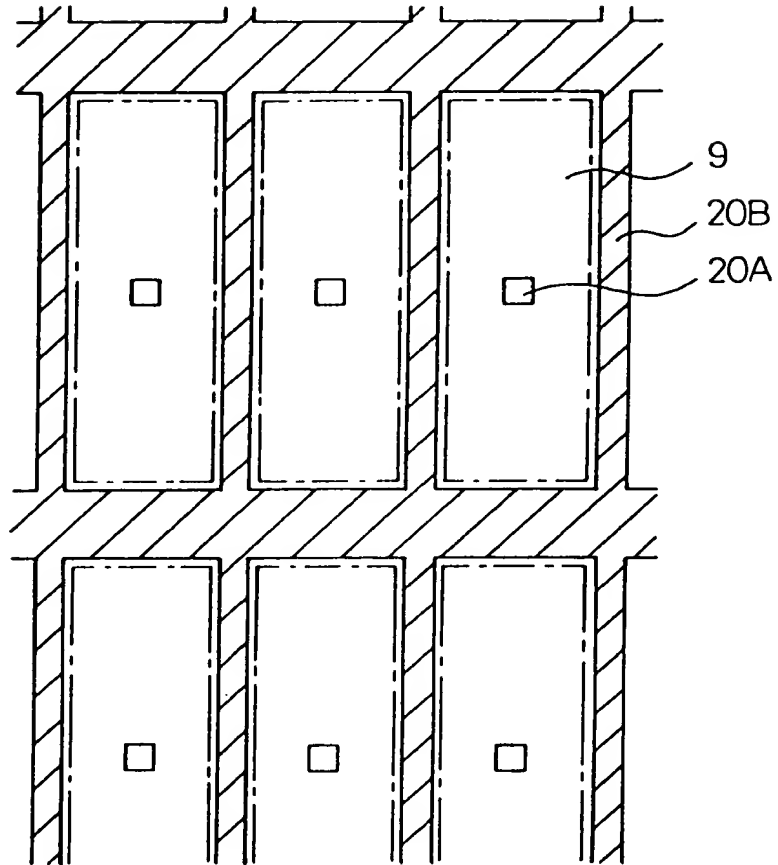
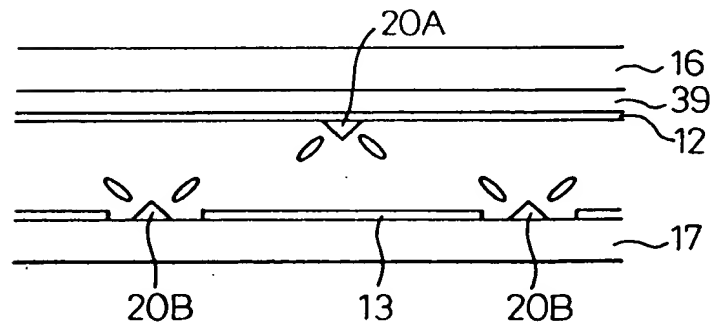
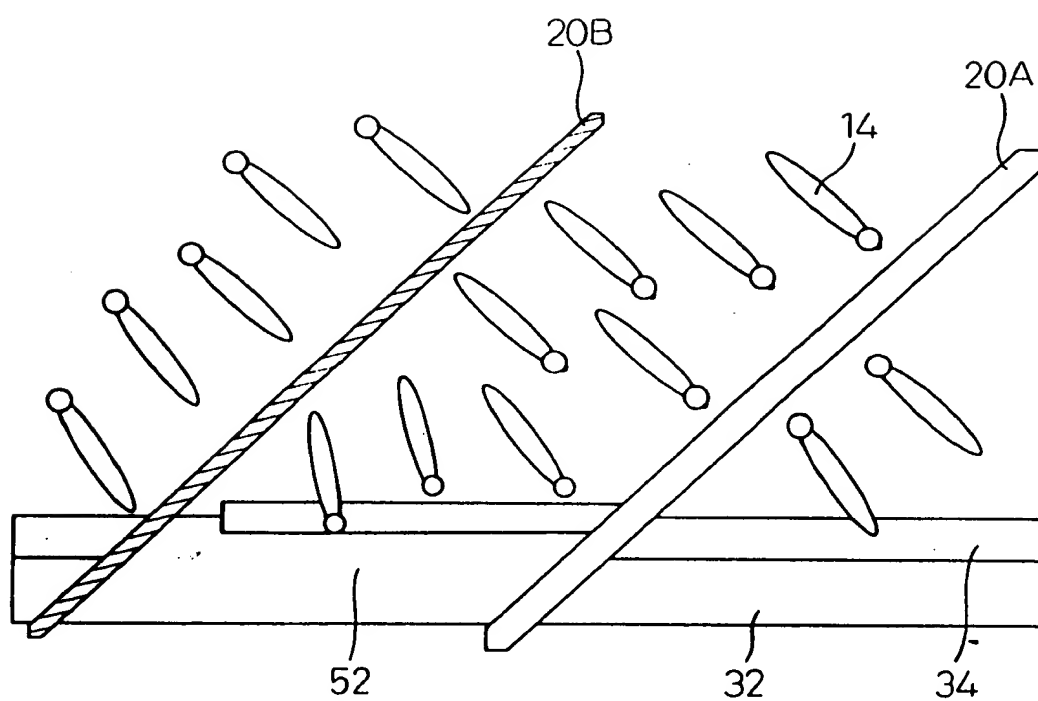


Fig. 254 B



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Fig. 255



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